

**Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

**Title V
AIR QUALITY PERMIT
Issued under 401 KAR 52:020**

Permittee Name: Carmeuse Lime & Stone, Inc.
Mailing Address: 9043 Highway 154, Butler, Kentucky 41006

is authorized to construct and operate a lime manufacturing facility

Source Name: Carmeuse Lime & Stone, Inc. Black River Operation
Mailing Address: Same as above

Source Location: At the junction of Route 8 and KY 154 near Carntown

Permit Number: V-05-003

Log Number: 50254
Activity ID #: APE20040002
Review Type: Construction / Operating, Title V, PSD
Source ID #: 21-191-00002
AI Number: 3400
SIC Code: 3274

Regional Office: Florence Regional Office
8020 Veterans Memorial Drive, Suite 110
Florence, KY 41042
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County: Pendleton

**Application
Complete Date:** October 24, 2004

Issuance Date: December 13, 2005

Expiration Date: December 13, 2010

**John S. Lyons, Director
Division for Air Quality**

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application, the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify an affected facility without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in Regulation 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**LIMESTONE HANDLING:****Processing:**

- 01 (2) **Conveyor and Transfer Points (#14-101) (42" x 1100')**
 (From Underground Mine to Conveyor #14-102)
 (Maximum Process Rate – 1250 tons/hour)
 Constructed: Pre-1975
 Control: Water Spray
- (2) **Conveyor and Transfer Points (#14-102) (42" x 513')**
 (From Conveyor #14-101 to Stockpile and Conveyor #14-200)
 (Maximum Process Rate – 1250 tons/hour)
 Constructed: Pre-1975
 Control: Water Spray in Transfer Chute
- (18) **Stockpile (8 x 0 ROM) (From Conveyor #14-102)**
 (Maximum Process Rate – 1250 tons/hour)
 Control: Moist Material
- (2) **Conveyor and Transfer Points (#14-200) (42" x 176')**
 (From Conveyor #14-102 to Stockpile)
 (Maximum Process Rate – 1250 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (18) **Stockpile (8 x 0 ROM) (From Conveyor #14-200)**
 (Maximum Process Rate – 1250 tons/hour)
 Control: Moist Material
- (4) **Conveyor and Transfer Points (#51-100) (42" x 125')**
 [From Underground Feeders (8 x 0 Stockpile) to Conveyor #51-201]
 (Maximum Process Rate – 1250 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material
- (8) **Conveyor and Transfer Points (#51-205) (24" x 375')**
 (From Screens #51-313 East and #51-314 West to Stockpile)
 (Maximum Process Rate – 240 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (18) **Stockpile (1½ x ¼) (From Conveyor #51-205)**
 (Maximum Process Rate – 240 tons/hour)
 Control: Moist Material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING: (CONTINUED)****Processing: (Continued)**

- 01 (8) **Conveyor and Transfer Points (#51-206) (24" x 180')**
 (From Conveyor #51-205 to Stockpile)
 (Maximum Process Rate – 240 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (18) **Stockpile (1½ x ¼) (From Conveyor #51-206)**
 (Maximum Process Rate – 240 tons/hour)
 Control: Moist Material
- (8) **Conveyor and Transfer Points (#51-208) (30" x 515')**
 (From Conveyor #51-207 to Kiln Feed Stockpiles)
 (Maximum Process Rate – 775 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (18) **Stockpile (Kiln Feed) (3 x ½) (From Conveyor #51-208)**
 (Maximum Process Rate – 775 tons/hour)
 Control: Moist Material
- (18) **Stockpile (Kiln Feed) (3 x ½) (From Conveyor #51-208)**
 (Maximum Process Rate – 775 tons/hour)
 Control: Moist Material
- (18) **Stockpile (Kiln Feed) (3 x ½) (From Conveyor #51-208)**
 (Maximum Process Rate – 775 tons/hour)
 Control: Moist Material
- (10) **Conveyor and Transfer Points (#51-204) (24" x 104.5')**
 (Fixed Radial Stacker)
 (From Conveyor #51-203 to Stockpile)
 (Maximum Process Rate – 210 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (18) **Stockpile (1 x 150 Mesh) (From Conveyor #51-204)**
 (Maximum Process Rate – 210 tons/hour)
 Control: Moist Material
- (-) **Loadout (From 1 x 150 Mesh Stockpile)**
 Control: Moist Material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIMESTONE HANDLING: (CONTINUED)

Processing: (Continued)

- | | |
|----|---|
| 01 | <p>(16) Conveyor and Transfer Points (#51-219) (24" x 60')
 (From Screen to Sinter Stockpile)
 (Maximum Process Rate – 210 tons/hour)
 Constructed: 1998
 Control: Moist Material</p> |
| | <p>(18) Stockpile (Sinter) (From Conveyor #51-219)
 (Maximum Process Rate – 210 tons/hour)
 Control: Moist Material</p> |
| | <p>(-) Loadout (From Sinter Stockpile)
 (Maximum Process Rate – 210 tons/hour)
 Control: Moist Material</p> |
| | <p>(16) Conveyor and Transfer Points (#51-220) (24" x 80')
 (From Screen to 8s Stockpile)
 (Maximum Process Rate – 210 tons/hour)
 Constructed: 1998
 Control: Moist Material</p> |
| | <p>(18) Stockpile (8s) (From Conveyor #51-220)
 (Maximum Process Rate – 210 tons/hour)
 Control: Moist Material</p> |
| | <p>(-) Loadout (From 8s Stockpile)
 (Maximum Process Rate – 210 tons/hour)
 Control: Moist Material</p> |
| | <p>(12) Kiln #1 Stone Bin
 (From Conveyor #52-302 to Conveyor #81-111)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: Pre-1975
 Control: Enclosed</p> |
| | <p>(-) Conveyor and Transfer Points (#81-111) (24" x 27')
 (From Kiln #1 Stone Bin to Conveyor #81-121)
 (Maximum Process Rate – 50 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material</p> |

SECTION B – EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING: (CONTINUED)****Processing: (Continued)**

- 01 (-) **Conveyor and Transfer Points (#81-121) (24" x 405')**
 (From Conveyor #81-111 to Conveyor #81-131)
 (Maximum Process Rate – 50 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material
- (-) **Conveyor and Transfer Points (#81-131) (24" x 24')**
 (From Conveyor #81-121 to Kiln #1)
 (Maximum Process Rate – 50 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material
- (12) **Kiln #2 Stone Bin**
 (From Conveyor #52-302 to Conveyor #82-112)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: Pre-1975
 Control: Enclosed
- (-) **Conveyor and Transfer Points (#82-112) (24" x 27')**
 (From Kiln #2 Stone Bin to Conveyor #82-122)
 (Maximum Process Rate – 50 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material
- (-) **Conveyor and Transfer Points (#82-122) (24" x 405')**
 (From Conveyor #82-112 to Conveyor #82-132)
 (Maximum Process Rate – 50 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material
- (-) **Conveyor and Transfer Points (#82-132) (24" x 24')**
 (From Conveyor #82-122 to Kiln #2)
 (Maximum Process Rate – 50 tons/hour)
 Constructed: Pre-1975
 Control: Moist Material
- (12) **Conveyor and Transfer Points (#52-215) (30" x 122.5')**
 (From Conveyor #52-302 to Kiln #3 Stone Bin)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1976
 Control: Moist Material

SECTION B – EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING: (CONTINUED)****Processing: (Continued)**

- 01 (12) **Kiln #3 Stone Bin**
(From Conveyor #52-215 to Conveyor #83-224)
(Maximum Process Rate – 875 tons/hour)
Constructed: 1976
Control: Enclosed
- (-) **Conveyor and Transfer Points (#83-224) (24” x 22’)**
(From Kiln #3 Stone Bin to Conveyor #83-228)
(Maximum Process Rate – 125 tons/hour)
Constructed: 1976
Control: Enclosed in Building / Moist Material
- (-) **Conveyor and Transfer Points (#83-228) (24” x 520’)**
(From Conveyor #83-224 to Enclosed Chute)
(Maximum Process Rate – 125 tons/hour)
Constructed: 1976
Control: Moist Material

Barge Loadout:

- 03 (-) **Receiving Hopper (Existing Stone Dump Hopper)**
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Moist Material
- (-) **Receiving Hopper (Existing Stone Dump Hopper)**
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Moist material
- (20) **Conveyor and Transfer Points (#93-100) (48” x 70’)**
(From Receiving Hoppers to Conveyor #93-101)
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Moist Material

SECTION B – EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIME HANDLING:**

- 10 (78) **Receiving Hopper**
(From End-Loader to Lime Reclaim System)
(Maximum Process Rate – 175 tons/hour)
Constructed: 1997
Control: None

RAILCAR CLEANOUT SYSTEM:

- 17 (72) **Conveyor and Transfer Points (Screw)**
(From Railcar to Conveyor)
(Maximum Process Rate – 20 tons/hour)
Constructed: 1990
Control: None
- (72) **Conveyor and Transfer Points**
(From Conveyor under Railcar to Storage Bin)
(Maximum Process Rate – 20 tons/hour)
Constructed: 1990
Control: None
- (72) **Storage Bin**
[From Conveyor to Conveyor #94-550 (To Hydrate Plant)]
(Maximum Process Rate – 20 tons/hour)
Constructed: 1990
Control: None

HYDRATE PLANT:

- 18 (80) **Conveyor and Transfer Points (#94-550) (42" x 403.5')**
(From Conveyor #94-808 to Conveyor #93-100)
(Maximum Process Rate – 375 tons/hour)
Constructed: 1980
Control: Covered
- (81) **Conveyor and Transfer Points (#93-101) (42" x 337.5')**
(From Conveyor #93-100 to Conveyor #90-050)
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Covered

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 18 (81) **Conveyor and Transfer Points (#90-050) (30" x 200')**
[From Conveyor #93-101 to Feed Bins #135 and #133 (Hydrate Plant)]
(Maximum Process Rate – 300 tons/hour)
Constructed: 1980
Control: Covered
- (-) **Conveyor and Transfer Points (Screw) (#132)**
(From Feed Bins #133 and #135 to Conveyor #102)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#102)**
(From Conveyor #132 to Elevator #103)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed
- (-) **Elevator (#103)**
(From Conveyor #102 to Conveyor #104)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#104)**
(From Elevator #103 to Weigh Feeder Surge Bin #121)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed
- (-) **Weigh Feeder Surge Bin (#121)**
(From Conveyor #104 to Weigh Feeder #105)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed
- (-) **Weigh Feeder (#105)**
(From Weigh Feeder Surge Bin #121 to Conveyor #134 and Mixer #106)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 18 (-) **Conveyor and Transfer Points (Screw) (#119)**
 (From Raymond Mill #140 to Elevator #120)
 (Maximum Process Rate – 4 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Elevator (#120)**
 (From Conveyor #119 to Conveyor #123)
 (Maximum Process Rate – 4 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#109)**
 (From Seasoner #107 to Elevator #110)
 (Maximum Process Rate – 30 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#111A)**
 (From Classifier #112 to Conveyor #123)
 (Maximum Process Rate – 2.5 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#123) (Rejects)**
 (From Elevator #120 and Conveyor #111A to Rejects Bin #124)
 (Maximum Process Rate – 85 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#126)**
 (From Multi-Cyclone #141 to Storage Bin #222)
 (Maximum Process Rate – 30 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#113)**
 (From Classifier #112 and Conveyor #117 to Elevator #114)
 (Maximum Process Rate – 20 tons/hour)
 Constructed: 1980
 Control: Enclosed

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 18 (-) **Elevator (#114)**
 (From Conveyor #113 to Conveyor #115)
 (Maximum Process Rate – 20 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#115)**
 (From Elevator #114 to Conveyor #116)
 (Maximum Process Rate – 15 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#116)**
 (From Conveyor #115 to Conveyor #400 and Storage Bin #224)
 (Maximum Process Rate – 15 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#400)**
 (From Conveyor #116 to Storage Bin #223)
 (Maximum Process Rate – 20 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) **Conveyor and Transfer Points (Screw) (#203)**
 (From Storage Bins #223 and #224 to Hydrate Packer System)
 (Maximum Process Rate – 20 tons/hour)
 Constructed: 1980
 Control: Enclosed

HAUL ROAD AND YARD AREA:

- 21 (76) **Haul Road and Yard Area (Paved)**
 (All Haul Roads and Yard Area existing or constructed by Permit
 Number C-93-032, signed on August 12, 1993)
 Constructed: 1995
 Control: Water Spray

LANDFILL:

- 22 (-) **Landfill (Rejects and Waste Material)**
 Constructed: 2003
 Control: Water Spray

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ADDITIONS TO THE SOURCE

HAUL ROAD AND YARD AREA:

- 23 (76) Haul Road and Yard Area (Unpaved)**
(Haul Road and Yard Area from Coal Unloading to Stockpile)
Constructed: 2003
Control: Water Spray

HYDRATE PLANT:

- 25 (100) Conveyor and Transfer Points (Screw)**
(From Conveyor #219 to Loading Spout)
(Maximum Process Rate – 100 tons/hour)
Constructed: 2004
Control: Enclosed

APPLICABLE REGULATIONS:

Regulation 401 KAR 63:010, Fugitive emissions, applies to each of the affected facilities listed above.

40 CFR 63, Subpart AAAAA, National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants, which applies to the thirteen conveyors and transfer points #51-100, #51-205, #51-206, #51-208, #52-215, #81-111, #81-121, #81-131, #82-122, #82-122, #82-132, #83-224, and #83-228 [emission points 01 (4), (8), (12), and (-)]; and stone bins for kilns #1, #2, and #3 [emission points 01 (12)]. The compliance date for existing affected sources is no later than January 5, 2007.

1. Operating Limitations:

- a. Pursuant to 40 CFR 63, Subpart AAAAA, Table 2, a written operations, maintenance, and monitoring (OM&M) plan must be prepared. The plan must include the items listed in 40 CFR 63.7100(d) and the corrective actions to be taken when required in Table 5 to this subpart.
- b. The open stockpiling, or accumulation on, under, or against pieces of equipment or structures, of lime material (product that has fallen from a conveyor system, reject material, hydrate, or any other form of lime) is prohibited. This includes material that has encrusted itself on a conveyor cover or any other fixture, including the ground. [401 KAR 63:010]

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations:

- a. Fugitive emissions from the three storage bins, emission points 01 (12); and the thirteen conveyor and transfer points, emission points 01 (4), (8), (12), and (-); shall not exhibit greater than ten percent (10%) opacity, each, as specified in Regulation 40 CFR 63, Subpart AAAAA, Table 1.
- b. The materials processed at each affected facility listed above shall be controlled with wet suppression, enclosures, and/or dust collection equipment so as to comply with the requirements specified in Regulation 401 KAR 63:010, Fugitive emissions, Section 3. Standards for fugitive emissions.
- c. Pursuant to Regulation 401 KAR 63:010, Section 3 (1), no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished, or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the following:
 - 1) Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
 - 2) Application and maintenance of asphalt, oil, water, or suitable chemicals on roads, materials stockpiles, and other surfaces which can create airborne dusts;
 - 3) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. Adequate containment methods shall be employed during sandblasting or other similar operations.
 - 4) Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;
 - 5) The maintenance of paved roadways in a clean condition;
 - 6) The prompt removal of earth or other material from a paved street which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water.
- d. Pursuant to Regulation 401 KAR 63:010, Section 3 (2), no person shall cause or permit the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- e. Pursuant to Regulation 401 KAR 63:010, Section 3 (3), when dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any administrative regulation, the Secretary may order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or air-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.
- f. Pursuant to Regulation 401 KAR 63:010, Section 4, Additional Requirements, in addition to the requirements of Section 3 of this regulation, the following shall apply:
 - 1) Pursuant to Regulation 401 KAR 63:010, Section 4 (1), open bodied trucks, operating outside company property, transporting materials likely to become airborne shall be covered at all times when in motion.
 - 2) Pursuant to Regulation 401 KAR 63:010, Section 4 (4), no one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway.

Compliance Demonstration Method:

- a. In determining initial compliance with the opacity standards for the three storage bins, emission points 01 (12); and the thirteen conveyor and transfer points, emission points 01 (4), (8), (12), and (-); as listed above, the owner or operator must use Method 9 according to item 17 in Table 4 of 40 CFR 63, Subpart AAAAA and in accordance with 40 CFR 63.7112(l)(1) through (3).
- b. In demonstrating subsequent annual compliance with the specified opacity limitations listed above, as required by 401 KAR 52:020, Section 22, Annual Emissions Certifications, and/or upon request by the Division, the owner or operator must use, as directed by 40 CFR 63.7112(l), Method 9 according to item 17 in Table 4 of 40 CFR 63, Subpart AAAAA and in accordance with 40 CFR 63.7112(l)(1) through (3).
- c. Compliance with the emission standards listed in 40 CFR 63, Subpart AAAAA must be demonstrated no later than January 5, 2007 utilizing the tests and procedures listed in Table 4 for each affected facility.
- d. See Attachments, Table 3, for initial compliance with 40 CFR 63, Subpart AAAAA emission limits per 40 CFR 63.7114.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

Compliance Demonstration Method: (Continued)

- e. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
 - Pursuant to Regulation 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at any time an affected facility for which the equipment and measures are designed is operated, except as provided by Regulation 401 KAR 50:055, Section 1. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control equipment is not.
- f. See **4. Specific Monitoring Requirements** below.

3. Testing Requirements:

- a. Pursuant to 40 CFR 63.7110(a), all applicable performance tests on an existing affected source must be complete by January 5, 2007, according to the provisions in 40 CFR 63.7(a)(2) and 40 CFR 63.7114.
- b. Although 40 CFR 63.7111 requires a performance test to be conducted within 5 years following the initial performance test and within 5 years following each subsequent performance test thereafter, 401 KAR 52:020, Section 21, requires an annual compliance certification. Pursuant to 40 CFR 63.7112(l), EPA Method 9 must be used to determine compliance with the opacity standards.
- c. Pursuant to 40 CFR 63.7112(c), performance tests may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 63.7(e)(1).
- d. Pursuant to 40 CFR 63.7112(h), performance tests results must be documented in complete test reports that contain the information required by 40 CFR 63.7112(h)(1) through (10), as well as all other relevant information. The protocol to be followed during testing must be made available to the Division at least 60 days prior to the testing.
- e. Pursuant to 40 CFR 63.7112(l), when determining compliance with the opacity standards for fugitive emissions from PSH operations in item 7 of Table 1 of Subpart AAAAA, a Method 9 must be conducted according to item 17 in Table 4 of Subpart AAAAA, and in accordance with the following:
 - 1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**3. Testing Requirements: (Continued)**

- e.
 - 2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun must be followed.
 - 3) If wet suppression is used to control PM from PSH operations, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not considered VE. When a water mist of this nature is present, emissions must be observed at a point in the plume where the mist is not longer visible.
- f. See Section G, Condition (d)5 and 7.

4. Specific Monitoring Requirements:

- a. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed coming from those points listed above that are covered by 40 CFR 63, Subpart AAAAA, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. If visible emissions are observed coming from all other points listed above, the permittee shall perform a Method 22 reading. The amount of time that visible emissions occur during the observation period (accumulated emission time) shall be recorded in the daily log. The Division is requiring that the observations be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- b. See Section F, Conditions 2, 7, and 8.
- c. See Attachments, Table 6, for additional monitoring requirements under 40 CFR 63, Subpart AAAAA.

5. Specific Recordkeeping Requirements:

- a. Records of daily observations, and support information shall be kept in accordance with the provisions of Section F, Condition 2. See 4.a. above.
- b. A log shall be kept of all routine and non-routine maintenance performed on each control device.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements: (Continued)

- c. Records shall be kept as required under 40 CFR 63.7132:
 - 1) Pursuant to 40 CFR 63.7132 (a)(1) through (3):
 - a) A copy of each notification and report submitted to comply with 40 CFR 63, Subpart AAAAA, including all documentation supporting any Initial Notification or Notification Compliance Status submitted in accordance to the requirements in 40 CFR 63.10(b)(2)(xiv),
 - b) The records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
 - c) Records of performance tests, performance evaluations, and opacity and VE observations.
 - 2) Pursuant to 40 CFR 63.7132 (b), records in 40 CFR 63.6(h)(6) must be kept for VE observations.
 - 3) Pursuant to 40 CFR 63.7132 (c), records required by Tables 5 and 6 of 40 CFR 63, Subpart AAAAA, must be kept to show continuous compliance with each emission limitation that applies to the facility.
 - 4) Pursuant to 40 CFR 63.7132 (d), records must be kept which document the basis for the initial applicability determination as required under 40 CFR 63.7081.
- d. See 40 CFR 63.7133 for additional recordkeeping requirements.
- e. See Section F, Conditions 1 and 2.

6. Specific Reporting Requirements:

- a. See 40 CFR 63.7130, 63.7131, and Table 7 to Subpart AAAAA for reporting requirements under 40 CFR 63, Subpart AAAAA.
- b. See Section F, Conditions 5, 6, 7, 8, 9, and 10.
- c. See Section G, Conditions (a)4 and 5, (d)2, and (f)1.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**7. Specific Control Equipment Operating Conditions:**

- a. All air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at any time an affected facility for which the equipment and measures are designed is operated. Failure to comply with the requirement that all pollution control equipment and measures be operating any time the associated piece of equipment is operating is a violation of this permit and may result in enforcement action. Pursuant to Regulation 401 KAR 63:010, Section 3 (3), a violation of any administrative regulation, may result in the Secretary ordering that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or air-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.
- b. The control equipment, baghouse, listed for the lime barge loadout, emission point 12 (68), controls only those emissions coming from the loading spout. Any emissions coming from under the skirts surrounding the loading spout are fugitive. Any emissions coming from the barge openings are also fugitive. This also applies to the hydrate truck loadouts, emission points 20 (88). Those emissions coming from a vent opening on the truck and from the opening associated with the loading spout that is sealed are fugitive. Fugitive emissions are covered under 401 KAR 63:010.
- c. Although the permit list the control for the limestone processing (crushing, screening, and conveying) as "Moist Material" the Division is assuming that the controls listed in the initial application as water spray will be similar to that utilized by the respective limestone industry. These controls are a pressurized water system with atomizing nozzles. These controls will be in place, properly maintained, and in operation any time the associated piece of equipment is operated (See 7.a. above). The stockpiles are to be monitored and sufficiently wetted to ensure the control of fugitive emissions.
- d. If any control method(s) proposed in the permit application prove to be inadequate to meet the emission requirements listed in the permit, the Division reserves the right to require additional controls, or another form of control, be utilized to meet the permit requirements.

8. Alternate Operating Schedule:

N/A

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

9. Compliance Schedule:

- a. The equipment used in the conveying of the coarse material (limestone and coal) associated with this facility is not deemed to have adequate controls (controls listed in the application) to facilitate the conveying of **lime material (product, reject material, hydrate, or any other form of lime) or lime additive. A Standard Operating Plan (SOP) addressing the conveying of such lime material or lime additive** with the existing coarse material handling equipment and associated controls must be submitted to the Division for approval. This Plan must address the procedures, controls, monitoring requirements and corrective actions to be taken in the event of a malfunction to ensure the facility will be able to meet the emission limitations set forth in this permit. This Plan must be submitted to the Division for approval within ninety (90) calendar days of the issuance date of the Proposed Permit.
- b. All open stockpiles and accumulated lime material on, under, or against pieces of equipment or structures must be removed within ninety (90) calendar days of the issuance date of the Proposed Permit in a proper manner to an approved landfill.
- c. Pursuant to 40 CFR 63.7083(b), existing affected sources must comply with the applicable emission limitations and all applicable performance tests must be completed no later than January 5, 2007.
- d. Due to the promulgation of 40 CFR 63, Subpart AAAAAA being after the submittal of the Title V application, the requirement for the written operations, maintenance, and monitoring (OM&M) plan to be submitted with the application under 40 CFR 63.7100(d) could not be met. Therefore the OM&M plan must be submitted within ninety (90) calendar days of the issuance date of the Proposed Permit

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING:****Processing:**

- 02 (4) **Conveyor and Transfer Points (#51-200) (42" x 150')**
[From Underground Feeders (8 x 0 Stockpile) to Conveyor #51-201]
(Maximum Process Rate – 1250 tons/hour)
Constructed: 1995
Control: Moist Material
- (4) **Conveyor and Transfer Points (#51-201) (48" x 425')**
(From Conveyors #51-100 and #51-200 and Secondary Cone Crushers
#51-215 #1 North and #51-216 #2 South to Triple Deck Screens)
(Maximum Process Rate – 1790 tons/hour)
Constructed: 1995
Control: Moist Material
- (6/8/10) **Screen (#51-313 East) (8' x 20' Triple-Deck)**
(Maximum Rated Capacity – 895 tons/hour)
(From Conveyor #51-201 to Conveyors #51-202, #51-205, and #51-207;
and Spiral Classifier)
Constructed: 1998
Control: Enclosed in building / Water Spray
- (6/8/10) **Screen (#51-314 West) (8' x 20' Triple-Deck)**
(Maximum Rated Capacity – 895 tons/hour)
(From Conveyor #51-201 to Conveyors #51-202, #51-205, and #51-207;
and Spiral Classifier)
Constructed: 1998
Control: Enclosed in building / Water Spray
- (4) **Conveyor and Transfer Points (#51-202) (36" x 435')**
(From Triple-Deck Screens to Surge Bin)
(Maximum Process Rate – 540 tons/hour)
Constructed: 1995
Control: Enclosed in building / Moist Material
- (4) **Surge Bin**
(From Conveyor #51-202 to Secondary Cone Crushers)
(Maximum Process Rate – 540 tons/hour)
Constructed: 1995
Control: Enclosed in building / Closed Bin / Moist Material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING: (CONTINUED)****Processing: (Continued)**

- 02 (4) **Secondary Crusher (#51-304 #1 North) (4 ¼ Std Cone)**
 (Maximum Rated Capacity – 500 tons/hour)
 (From Surge Bin to Conveyor #51-201)
 Constructed: 1995
 Control: Enclosed in building / Moist Material
- (4) **Secondary Crusher (#51-305 #2 South) (4 ¼ Std Cone)**
 (Maximum Rated Capacity – 500 tons/hour)
 (From Surge Bin to Conveyor #51-201)
 Constructed: 1995
 Control: Enclosed in building / Moist Material
- (8) **Conveyor and Transfer Points (#51-205) (24” x 375’)**
 (From Screens #51-301 East and #51-302 West to Conveyor #51-206)
 (Maximum Process Rate – 240 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (8) **Conveyor and Transfer Points (#51-207) (30” x 380’)**
 (From Screens #51-301 East and #51-302 West to Conveyor #51-208)
 (Maximum Process Rate – 775 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (10) **Spiral Classifier (#51-303) (Duplex 72”) (Wet Process – No Emissions)**
 (From Screens #51-301 East and #51-302 West to Conveyor #51-203)
 Constructed: 1995
 Control: Moist Material
- (10) **Conveyor and Transfer Points (#51-203) (24” x 255’)**
 (From Spiral Classifier to Conveyor #51-204)
 (Maximum Process Rate – 210 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (10) **Conveyor and Transfer Points (#51-204) (24” x 104.5’)**
 (Fixed Radial Stacker)
 (From Conveyor #51-203 to 8’ x 20’ Triple-Deck Screen)
 (Maximum Process Rate – 210 tons/hour)
 Constructed: 1995
 Control: Moist Material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIMESTONE HANDLING: (CONTINUED)

Processing: (Continued)

- 02 (16) **Screen (8' x 20' Triple-Deck)**
 (Maximum Rated Capacity – 895 tons/hour)
 (From Conveyor #51-204 to Conveyors #51-219 and #51-220)
 Constructed: 1998
 Control: Moist Material
- (12) **Conveyor and Transfer Points (#52-301) (36" x 910')**
 (From Underground Stockpile Feeders to Conveyor #52-302)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (12) **Conveyor and Transfer Points (#52-302) (30" x 600')**
 (From Conveyor #52-301 to Kiln #1 and #2 Stone Bins and Conveyors
 #52-303 and #52-215)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (-) **Enclosed Chute**
 (From Conveyor #83-228 to Kiln #3)
 (Maximum Process Rate – 125 tons/hour)
 Constructed: 2003
 Control: Enclosed
- (12) **Conveyor and Transfer Points (#52-303) (30" x 400')**
 (From Conveyor #52-302 to Kiln #4 Stone Bin and Conveyor #52-304)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1995
 Control: Moist Material
- (12) **Kiln #4 Stone Bin**
 (From Conveyor #52-303 to Kiln #4)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1995
 Control: Moist Material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING: (CONTINUED)****Processing: (Continued)**

02 (12) **Conveyor and Transfer Points (#52-304) (30" x 77.5')**
 (From Conveyor #52-303 to Kiln #5 Stone Bin)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1995
 Control: Moist Material

 (12) **Kiln #5 Stone Bin**
 (From Conveyor #52-304 to Kiln #5)
 (Maximum Process Rate – 875 tons/hour)
 Constructed: 1995
 Control: Moist Material

APPLICABLE REGULATIONS:

Regulation 401 KAR 60:670, New nonmetallic mineral Processing plants (40 CFR 60, Subpart OOO as modified by Section 3 of 401 KAR 60:670), which applies to emission units that commenced construction, reconstruction, or modification after August 31, 1983.

40 CFR 63, Subpart AAAAA, National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants, which applies to all the emission units listed above, except the two secondary crushers [emissions points 02 (4)]. The compliance date for existing affected sources is no later than January 5, 2007.

1. Operating Limitations:

Pursuant to 40 CFR 63, Subpart AAAAA, Table 2, a written operations, maintenance, and monitoring (OM&M) plan must be prepared. The plan must include the items listed in 40 CFR 63.7100(d) and the corrective actions to be taken when required in Table 5 to this subpart.

2. Emission Limitations:

- a. Fugitive emissions from the two storage bins, emission points 02 (12); the one screen, emission point 02 (16); the enclosed chute, emission point 02 (-); and the ten conveyor and transfer points, emission points 02 (4), (8), (10), and (12); shall not exhibit greater than ten percent (10%) opacity, each, as specified in Regulation 401 KAR 60:670 [40 CFR 60.672(b)] and 40 CFR 63, Subpart AAAAA, Table 1.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- b. Fugitive emissions from the two secondary crushers, emission point 02 (4); the two screens, emission point 02 (6/8/10); the one conveyor and transfer points (#51-202), emission point 02 (4); and the one surge bin, emission point 02 (4); must comply with the following:
 - 1) a) The two secondary crushers, emission point 02 (4), shall not exhibit greater than fifteen percent (15%) opacity, each, as specified in Regulation 401 KAR 60:670 [40 CFR 60.672(c)], or as noted in 2) below.
 - b) The two screens, emission point 02 (6/8/10); the one conveyor and transfer points (#51-202), emission point 02 (4); and the one surge bin, emission point 02 (4); shall not exhibit greater than ten percent (10%) opacity, each, as specified in Regulation 401 KAR 60:670 [40 CFR 60.672(b)] and 40 CFR 63, Subpart AAAAA, Table 1, or as noted in 2) below.
- 2) No owner or operator shall cause to be discharged into the atmosphere from the building enclosing the two secondary crushers, emission point 02 (4); the two screens, emission point 02 (6/8/10); the one conveyor and transfer points (#51-202), emission point 02 (4); and the one surge bin, emission point 02 (4); any visible fugitive emissions except emissions from a vent, and those vent emissions shall not exceed particulate matter in excess of 0.05 g/dscm or exhibit greater than seven percent (7%) opacity, as specified in Regulation 60:670 [40 CFR 60.672(e)] and 40 CFR 63, Subpart AAAAA, Table 1. 40 CFR 63, Subpart AAAAA does not pertain to the two secondary crushers.

Compliance Demonstration Method:

- a. In determining initial compliance with the opacity standards as listed above, except for the two secondary crushers, emission point 02 (4), or those points listed under 2.b.2) above, the owner or operator must use EPA Method 9 according to item 17 in Table 4 of 40 CFR 63, Subpart AAAAA and in accordance with 40 CFR 63.7112(l)(1) through (3).
- b. In determining initial compliance with the opacity standards coming from a vent for those points listed under 2.b.2) above, the owner or operator shall use Method 9 and the procedures as described in 40 CFR 60.11 and 40 CFR 60.675(c), except for wet processes, which are exempt from Method 9, as specified in 40 CFR 60.675 (h)(1) and (2).
- c. In determining initial compliance with the particulate matter standards coming from a vent for those points listed under 2.b.2) above, the owner or operator shall use Method 5 or Method 17 and the procedures as described in 40 CFR 60.675(b)(1).

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE

REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations: (Continued)****Compliance Demonstration Method: (Continued)**

- d. In demonstrating subsequent annual compliance with the specified opacity limitations listed above, except for the two secondary crushers, emission point 02 (4), or those points listed under 2.b.2) above, as required by 401 KAR 52:020, Section 22, Annual Emissions Certifications, and/or upon request by the Division, the owner or operator must use EPA Method 9, as directed by 40 CFR 63.7112(l) according to item 17 in Table 4 of 40 CFR 63, Subpart AAAAA and in accordance with 40 CFR 63.7112(l)(1) through (3).
- e. In demonstrating subsequent annual compliance with the specified opacity limitations listed above coming from a vent for those points listed under 2.b.2) above, as required by 401 KAR 52:020, Section 22, Annual Emissions Certifications, and/or upon request by the Division, the owner or operator shall use Method 9 as directed by 40 CFR 60.675(c)(1), and the procedures as described in 40 CFR 60.11 and 40 CFR 60.675(c), except for wet processes, which are exempt from Method 9, as specified in 40 CFR 60.675 (h)(1) and (2).
- c. Pursuant to 40 CFR 60:675(d), in determining compliance with any visible fugitive emissions being discharged into the atmosphere from a building enclosing any transfer point on a conveyor belt or any other affected facility except from a vent, as listed in 2. b.2) above, the owner or operator shall use Method 22.
- d. Compliance with the emission standards listed in 40 CFR 63, Subpart AAAAA must be demonstrated no later than January 5, 2007 utilizing the tests and procedures listed in Table 4 for each affected facility.
- e. See Attachments, Table 3, for initial compliance with 40 CFR 63, Subpart AAAAA emission limits per 40 CFR 63.7114.
- f. See 4. **Specific Monitoring Requirements** below.

3. Testing Requirements:

- a. Pursuant to 40 CFR 60:675(d), in determining compliance with any visible fugitive emissions being discharged into the atmosphere from a building enclosing any transfer point on a conveyor belt or any other affected facility except from a vent, as listed in 2. b.2) above, the performance test shall be conducted while all affected facilities inside the building are operating. The performance test shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.
- b. Pursuant to 40 CFR 63.7110(a), all applicable performance tests on an existing affected source must be complete by January 5, 2007, according to the provisions in 40 CFR 63.7(a)(2) and 40 CFR 63.7114.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**3. Testing Requirements: (Continued)**

- c. Although 40 CFR 63.7111 requires a performance test to be conducted within 5 years following the initial performance test and within 5 years following each subsequent performance test thereafter, 401 KAR 52:020, Section 21, requires an annual compliance certification. Pursuant to 40 CFR 63.7112(l), EPA Method 9 must be used to determine compliance with the opacity standards. 40 CFR 60.675(b)(2) also requires Method 9 and the procedures in 40 CFR 60.11 shall be used to determine compliance with the opacity standards.
- d. Pursuant to 40 CFR 63.7112(c), performance tests may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 63.7(e)(1).
- e. Pursuant to 40 CFR 63.7112(h), performance tests results must be documented in complete test reports that contain the information required by 40 CFR 63.7112(h)(1) through (10), as well as all other relevant information. The **protocol** to be followed during testing must be made available to the Division at least 60 days prior to the testing.
- f. Pursuant to 40 CFR 63.7112(k), for each building enclosing any Processed Stone Handling (PSH) operations that is subject to a Visual Emissions (VE) limit, a VE check must be conducted according to item 18 in Table 4 of 40 CFR 63, Subpart AAAAA, and in accordance with 40 CFR 63.7112(k)(1) through (3).
- g. Pursuant to 40 CFR 63.7112(l), when determining compliance with the opacity standards for fugitive emissions from PSH operations in item 7 of Table 1 of Subpart AAAAA, a Method 9 must be conducted according to item 17 in Table 4 of Subpart AAAAA, and in accordance with the following:
 - 1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - 2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun must be followed.
 - 3) If wet suppression is used to control PM from PSH operations, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not considered VE. When a water mist of this nature is present, emissions must be observed at a point in the plume where the mist is not longer visible.
- h. See Attachments, Table 4, for performance test requirements under 40 CFR 63, Subpart AAAAA.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**4. Specific Monitoring Requirements:**

- a. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed, except as noted below, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. If any visible fugitive emissions being discharged into the atmosphere from a building enclosing any transfer point on a conveyor belt or any other affected facility except from a vent, as listed in 2. b.2) above, the permittee shall perform a Method 22 reading. The amount of time that visible emissions occur during the observation period (accumulated emission time) shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- b. See Section F, Condition 2.
- c. Pursuant to 40 CFR 63.7121(e), for any vents subject to an opacity limit and each PSH operation subject to an opacity limit as specified in Table 1 of 40 CFR 63, Subpart AAAAA, a VE check must be conducted according to item 1 in Table 6 and the guidelines specified in 40 CFR 63.7121(e)(1) through (3).
- d. See Attachments, Table 6, for additional monitoring requirements under 40 CFR 63, Subpart AAAAA.

5. Specific Recordkeeping Requirements:

- a. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F, Condition 2. See 4.a. above.
- b. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- c. Records shall be kept as required under 40 CFR 63.7132:
 - 1) Pursuant to 40 CFR 63.7132 (a)(1) through (3):
 - a) A copy of each notification and report submitted to comply with 40 CFR 63, Subpart AAAAA, including all documentation supporting any Initial Notification or Notification Compliance Status submitted in accordance to the requirements in 40 CFR 63.10(b)(2)(xiv),
 - b) The records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements: (Continued)

- c.
 - 1) c) Records of performance tests, performance evaluations, and opacity and VE observations.
 - 2) Pursuant to 40 CFR 63.7132 (b), records in 40 CFR 63.6(h)(6) must be kept for VE observations.
 - 3) Pursuant to 40 CFR 63.7132 (c), records required by Tables 5 and 6 of 40 CFR 63, Subpart AAAAA, must be kept to show continuous compliance with each emission limitation that applies to the facility.
 - 4) Pursuant to 40 CFR 63.7132 (d), records must be kept which document the basis for the initial applicability determination as required under 40 CFR 63.7081.
- d. See 40 CFR 63.7133 for additional recordkeeping requirements.
- e. See Section F, Conditions 1 and 2.

6. Specific Reporting Requirements:

- a. See 40 CFR 63.7130, 63.7131, and Table 7 to Subpart AAAAA for reporting requirements under 40 CFR 63, Subpart AAAAA.
- b. See Section F, Conditions 5, 6, 7, 8, 9, 10 and 11.

7. Specific Control Equipment Operating Conditions:

- a. All air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at any time an affected facility for which the equipment and measures are designed is operated.
- b. Although the permit list the control for the limestone processing (crushing, screening, and conveying) as "Moist Material" the Division is assuming that the controls listed in the initial application as water spray will be similar to that utilized by the respective limestone industry. These controls are a pressurized water system with atomizing nozzles. These controls will be in place, properly maintained, and in operation any time the associated piece of equipment is operated (See 7.a. above).

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Conditions: (Continued)

- c. If any control method(s) proposed in the permit application prove to be inadequate to meet the emission requirements listed in the permit, the Division reserves the right to require additional controls, or another form of control, be utilized to meet the permit requirements.

8. Alternate Operating Schedule:

N/A

9. Compliance Schedule:

- a. The equipment used in the conveying of the coarse material (limestone and coal) associated with this facility is not deemed to have adequate controls (controls listed in the application) to facilitate the conveying of **lime material (product, reject material, hydrate, or any other form of lime) or lime additive. A Standard Operating Plan (SOP) addressing the conveying of such lime material or lime additive** with the existing coarse material handling equipment and associated controls must be submitted to the Division for approval. This Plan must address the procedures, controls, monitoring requirements and corrective actions to be taken in the event of a malfunction to ensure the facility will be able to meet the emission limitations set forth in this permit. This Plan must be submitted to the Division for approval within ninety (90) calendar days of the issuance date of the Proposed Permit.
- b. Pursuant to 40 CFR 63.7083(b), existing affected sources must comply with the applicable emission limitations and all applicable performance tests must be completed no later than January 5, 2007.
- c. Due to the promulgation of 40 CFR 63, Subpart AAAAAA being after the submittal of the Title V application, the requirement for the written operations, maintenance, and monitoring (OM&M) plan to be submitted with the application under 40 CFR 63.7100(d) could not be met. Therefore the OM&M plan must be submitted within ninety (90) calendar days of the issuance date of the Proposed Permit

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING:****Barge Loadout:**

- 04 (20) **Conveyor and Transfer Points (#93-101) (42" x 337.5')**
(From Conveyor #93-100 to Conveyor #93-102)
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: DEG Tower Dust Collector
- (20) **Conveyor and Transfer Points (#93-102) (42" x 537.5')**
(From Conveyor #93-101, DEG Tower Dust Collector, and Conveyor
#93-102 Dust Collector to Barge Loadout)
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Dust Collector / Moist Material
- (20) **Barge Loadout (From Conveyor #93-102)**
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Dust Collector / Moist Material
- (-) **Dust Collector (Barge Loadout)**
(To Conveyor #93-102)
Constructed: Unknown
Control: Baghouse (Fuller)
 (Not used when limestone is moist)

LIME HANDLING:

- 11 (46) **Railcar Loadout (From Conveyor #94-808)**
(Maximum Process Rate – 375 tons/hour)
Constructed: Pre-1975
Control: Enclosed with Dust Collector (DC-8)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-68-10)

HYDRATE PLANT:

- 19 (80) **Conveyor and Transfer Points (#93-100) (48" x 70')**
[From Conveyor #94-550 to Conveyor #93-101]
(Maximum Process Rate – 700 tons/hour)
Constructed: Pre-1975
Control: Baghouse (Pulse-Air)
 (Model: Mikropul 1656-30)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**APPLICABLE REGULATIONS:**

Regulation 401 KAR 61:020, Existing process operations, which applies to each of the affected facilities listed above constructed before July 2, 1975.

1. Operating Limitations:

N/A

2. Emission Limitations:

a. Pursuant to State Regulation 401 KAR 61:020, Section 3(2) and Appendix A:

- 1) Emissions of particulate matter from the two conveyor and transfer points #93-101 and #93-102 [emission points 04 (20)] shall not exceed 73.06 lbs/hr, each.
- 2) Emissions of particulate matter from the barge loadout [emission point 04 (20)] shall not exceed 73.06 lbs/hr.
- 3) Emissions of particulate matter from the railcar loadout [emission point 11 (46)] shall not exceed 65.56 lbs/hr.
- 4) Emissions of particulate matter from the one conveyor and transfer points #93-100 [emission points 19 (80)] shall not exceed 73.06 lbs/hr.

As determined by the following equations using the process weight rate (in units of tons/hr).

For process rates 1,000 lbs/hr or less: $E = 2.58$

For process rates up to 60,000 lbs/hr: $E = 4.10 P^{0.67}$

For process rates in excess of 60,000 lbs/hr: $E = 55.0 P^{0.11} - 40$

For the equation E = rate of emission in lb/hr and P = process weight rate in tons/hr

- b. Pursuant to Regulation 401 KAR 61:020, Section 3, any continuous emissions into the open air shall not equal or exceed forty percent (40%) opacity.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations: (Continued)****Compliance Demonstration Method:**

- a. Compliance with hourly emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly processing rate x Emission Factor as determined from AP-42 * / (Hours of operation per month)] x (1 – control efficiency)

* If an Emission Factor other than that taken from AP-42 is used, documentation on how that emission factor was derived must be submitted to the Division's Central Office for approval within 6 months of issuance of the proposed permit.

- b. Compliance with the opacity limits shall be determined as follows:

- 1) In determining initial compliance with the opacity standards as listed above, the owner or operator shall use Reference Method 9, as directed by 401 KAR 61:020, Section 4.
- 2) To ensure continued compliance with the specified opacity limitations listed above, subsequent annual compliance demonstrations, as required by Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1c (Material incorporated by reference in 401 KAR 52:020, Title V Permits, Section 26), or more frequent compliance demonstrations as deemed necessary by the Division to ensure continued compliance, the owner or operator shall use Reference Method 9, as directed by 401 KAR 61:020, Section 4.
- 3) If any of the emission units associated with a baghouse are in operation during any period of malfunction of the associated baghouse, the permittee shall determine compliance through maintenance of the records required by Item e. under **5. Specific Recordkeeping Requirements** below.

3. Testing Requirements:

Pursuant to Regulations 401 KAR 50:055, General compliance requirements; 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 61:020, Section 4, shall be conducted as required by the Division. The Reference Methods used to determine compliance with the aforementioned emission standards are as follows:

- a. Reference Method 1 – Selection of sample and velocity traverses.
- b. Reference Method 2 – Velocity and volumetric flow rate.
- c. Reference Method 3 – Gas analysis.
- d. Reference Method 9 – Opacity of continuous emissions.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements: (Continued)

- e. Reference Method 5 shall be used for the emission rates of particulate matter and the associated moisture content. For Reference Method 5:
 - 1) Reference Method 1 – Select the sampling site and number of traverse sampling points.
 - 2) Sampling time for each run shall be at least sixty (60) minutes.
 - 3) Minimum sample volume shall be 0.85 dscm [thirty (30) dscf].
 - 4) Smaller sampling time or volumes, when necessitated by process variables or other factors, may be approved by the Cabinet.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the following parameters:
 - 1) The monthly amount of material processed by each emission point.
 - 2) The monthly hours of operation (hours operated/month) of each emission point.
 - 3) The hourly pollutant emission rates (monthly average).
- b. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- c. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across each baghouse. This monitoring device will be read and this reading recorded once a day during the operation of the unit.

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the following information for the baghouses:
 - 1) The design and/or manufacturer's specifications.
 - 2) The operational procedures and preventative maintenance records.
 - 3) Daily records of the pressure drop across the baghouse during all periods of operation.
 - 4) During all periods of startup, shutdown, or malfunction of the baghouse, a daily (calendar day) log shall be kept of whether any air emissions were visible from the stack associated with the baghouse.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements: (Continued)

- b. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F. Condition 2. See 4.b. above.
- c. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- d. See Section F, Conditions 1 and 2.
- e. See **4. Specific Monitoring Requirements** above for additional recordkeeping requirements.

6. Specific Reporting Requirements:

See Section F, Conditions 5, 6, 7, 8, 9, 10 and 11.

7. Specific Control Equipment Operating Conditions:

- a. The baghouses associated with Emission Points 04 (20), 11 (46), and 19 (80) shall control particulate emissions and shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at all times the associated emission points are in use. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated baghouse is not.
- b. If any control device that requires its associated piece(s) of equipment to be enclosed to function effectively as an emissions control, such as; a baghouse that is not sufficiently sealed as a result of poor maintenance, careless operation, or negligence, the Division will consider that control to have been circumvented. This will constitute a violation of this permit. The violation must be corrected within thirty (30) days. Failure to correct the violation within thirty (30) days may result in enforcement action
- c. Although the permit list the control for the limestone processing (crushing, screening, and conveying) as "Moist Material" the Division is assuming that the controls listed in the initial application as water spray will be similar to that utilized by the respective limestone industry. These controls are a pressurized water system with atomizing nozzles. These controls will be in place, properly maintained, and in operation any time the associated piece of equipment is operated (See 7.a. above).
- d. See Section E, Condition 1.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**LIMESTONE HANDLING:****Barge Loadout:**

**05 (80) Dust Collector (DEG Tower)
(To Conveyors #93-102 and #90-050)
Constructed: 1980
Control: Baghouse (Pulse-Air)
 (Model: Mikropul 1656-30)**

LIME HANDLING:

**12 (-) Truck Loadout (From Rejects Bin)
(Maximum Process Rate – 305 tons/hour)
Constructed: 1995
Control: Partial Enclosure with Dust Collector**

**(68) Barge Loadout (From Conveyor #94-812)
(Maximum Process Rate – 1140 tons/hour)
Constructed: 1995
Control: Loading Spout with skirts and Dust Collector (DC-19)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-108-10)**

**(54) Truck Loadout (From Conveyor #94-813)
(Maximum Process Rate – 275 tons/hour)
Constructed: 1995
Control: Partial Enclosure with Dust Collector (DC-12)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-66-10)**

HYDRATE PLANT:

**20 (80) Dust Collector (DEG Tower)
(To Conveyors #90-050 and #93-102)
Constructed: 1980
Control: Enclosed and Baghouse
 Baghouse (Pulse-Air)
 (Model: Mikropul 1656-30)**

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 20 (-) **Feed Bin (#135) (Pulverized Lime) (3/4 x 1/4)**
(From Conveyor #90-050 to Conveyor #132)
(Maximum Process Rate – 300 tons/hour)
Constructed: 1980
Control: Dust Collector (#138)
 Baghouse (Pulse-Air)
 (Model: Mikropul 1656-30)
- (-) **Feed Bin (#133) (Hydrator) (1/4 x 0)**
(From Conveyor #90-050 to Conveyor #132)
(Maximum Process Rate – 300 tons/hour)
Constructed: 1980
Control: Dust Collector (#138)
 Baghouse (Pulse-Air)
 (Model: Mikropul 1656-30)
- (-) **Mill System Dust Collector (#136)**
(To Conveyor #134)
Constructed: 1980
Control: N/A
- (-) **Conveyor and Transfer Points (Screw) (#134)**
(From Weigh Feeder Surge Bin #121 to Mill Feed Bin #118)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Dust Collector (#136)
- (-) **Mill Feed Bin (#118)**
(From Conveyor #134 to Raymond Mill #140)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Dust Collector (#136)
- (-) **Mill Dust Collector (#142)**
(To Raymond Mill #140)
Constructed: 1980
Control: N/A
- (-) **Raymond Mill (#140)**
(From Mill Feed Bin #118 to Conveyor #119 and Multi-Cyclone #141)
(Maximum Process Rate – 30 tons/hour)

Constructed: 1980

Control: Dust Collector (#142) and Multi-cyclone (#141)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

HYDRATE PLANT: (CONTINUED)

- 20 (-) Multi-Cyclone with Airlock (#141)**
(From Raymond Mill #140 to Conveyor #126 and Raymond Mill #140)
(Maximum Process Rate – 30 tons/hour)
 Constructed: 1980
 Control: Enclosed
- (-) Scrubber (#108)**
(To Mixer #106 and Seasoner #107)
 Constructed: 1980
 Control: N/A
- (-) Mixer (#106)**
(From Weigh Feeder Surge Bin #121 to Seasoner #107)
(Maximum Process Rate – 23 tons/hour)
 Constructed: 1980
 Control: Scrubber #108
- (-) Seasoner (#107)**
(From Mixer #106 to Conveyor #109)
(Maximum Process Rate – 23 tons/hour)
 Constructed: 1980
 Control: Scrubber #108
- (-) Elevator (#110)**
(From Conveyor #109 to Conveyor #111)
(Maximum Process Rate – 30 tons/hour)
 Constructed: 1980
 Control: Enclosed and Dust Collector #301
- (-) Dust Collector (#301)**
(To Conveyor #111)
 Constructed: 1980
 Control: Enclosed
- (-) Conveyor and Transfer Points (Screw) (#111)**
(From Elevator #110 to Classifier #112)
(Maximum Process Rate – 30 tons/hour)
 Constructed: 1980
 Control: Enclosed and Dust Collector #301

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 20 (-) **Classifier (#112)**
(From Conveyor #111 to Conveyor #111A, Dust Collector #127, and Conveyor #113)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Enclosed and Dust Collector #127
- (-) **Dust Collector (#127)**
(From Classifier #112, Conveyors #117 and #113, and Elevator #114 to Conveyor #117)
Constructed: 1980
Control: N/A
- (-) **Conveyor and Transfer Points (Screw) (#117)**
(From Classifier Dust Collector #127 to Conveyor #113)
(Maximum Process Rate – 15 tons/hour)
Constructed: 1980
Control: Enclosed and Dust Collector #127
- (-) **Storage Bin (#223) (#2 Hydrate Product)**
(From Conveyor #400 to Conveyors #203 and #219A)
(Maximum Process Rate – 20 tons/hour)
Constructed: 1980
Control: Dust Collector (#139)
- (-) **Storage Bin (#224) (#1 Product)**
(From Conveyor #116 to Conveyors #203 and #219A)
(Maximum Process Rate – 15 tons/hour)
Constructed: 1980
Control: Dust Collector (#139)
- (-) **Dust Collector (#308)**
(From Conveyor #219A, Screw Conveyor, and Loading Spout to Conveyor #219A)
Constructed: 1980
Control: N/A

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 20 (88) **Conveyor and Transfer Points (Screw) (#219A)**
[From Storage Bins #223 and #224 and Dust Collector #308 to Conveyor (-)]
(Maximum Process Rate – 50 tons/hour)
Constructed: 1980
Control: Baghouse (#308) (Pulse-Air)
 (Model: Sly STJ-36-10)
- (88) **Conveyor and Transfer Points (Screw)**
(From Conveyor #219A to Truck Loadout)
(Maximum Process Rate – 50 tons/hour)
Constructed: 1980
Control: Baghouse (#308) (Pulse-Air)
 (Model: Sly STJ-36-10)
- (88) **Truck Loadout (#307) (From Storage Bins #223 and #224 – Hydrate)**
(Loadout is where Loading Spout forms seal with Trailer Hatch Opening)
(Maximum Process Rate – 50 tons/hour)
Constructed: 1996
Control: Baghouse (#308) (Pulse-Air)
 (Model: Sly STJ-36-10)
- (-) **Hydrate Packer System**
(From Conveyor #203)
(Maximum Process Rate – 20 tons/hour)
Constructed: 1980
Control: Dust Collector
- (-) **Storage Bin (#222) (Pulverized Lime Product)**
(From Conveyor #126 to Conveyor #219)
(Maximum Process Rate – 30 tons/hour)
Constructed: 1980
Control: Dust Collector (#139)
- (88) **Dust Collector (#214)**
(From Conveyor #219 and Loading Spout to Conveyor #219)
Constructed: 1980
Control: Baghouse (Pulse-Air)
 (Model: Mikropul 16510x30)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**HYDRATE PLANT: (CONTINUED)**

- 20 (88) **Conveyor and Transfer Points (Screw) (#219)**
(From Storage Bin #222 and Dust Collector #214 to Truck Loadout)
(Maximum Process Rate – 100 tons/hour)
Constructed: 1980
Control: Baghouse (#214) (Pulse-Air)
 (Model: Mikropul 16510x30)
- (88) **Truck Loadout (From Storage Bin #222 – Pulverized)**
(Loadout is where Loading Spout forms seal with Trailer Hatch Opening)
(Maximum Process Rate – 100 tons/hour)
Constructed: 1980
Control: Baghouse (#214) (Pulse-Air)
 (Model: Micropul 16510x30)
- (89) **Storage Bin (#124) (Rejects)**
(From Conveyor #123 to Truck Loadout)
(Maximum Process Rate – 85 tons/hour)
Constructed: 1980
Control: Bin Vent Filter (#303)
- (88) **Truck Loadout (From Storage Bin #124 – Rejects)**
(Loadout is where Loading Spout forms seal with Trailer Hatch Opening)
(Maximum Process Rate – 85 tons/hour)
Constructed: 1980
Control: Bin Vent Filter (#303)

ADDITIONS TO THE SOURCE**HYDRATE PLANT:**

- 26 (100) **Railcar Loadout**
(Maximum Process Rate – 100 tons/hour)
Constructed: 2004
Control: Baghouse
 (Model: Sly)

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:010, New process operations, which applies to emission units constructed on or after July 2, 1975.

Regulation 401 KAR 63:021, Existing sources emitting toxic pollutants, which applies to emission units associated with the processing of hydrated lime [Ca(OH)₂]

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations:

N/A

2. Emission Limitations:

a. Pursuant to Regulation 401 KAR 59:010, Section 3(2) and Appendix A:

- 1) Emissions of particulate matter from the truck loadout (from rejects bin) [emission point 12 (-)] shall not exceed 43.23 lbs/hr.
- 2) Emissions of particulate matter from the barge loadout (from conveyor #94-812) [emission point 12 (68)] shall not exceed 53.38 lbs/hr.
- 3) Emissions of particulate matter from the truck loadout (from conveyor #94-813) [emission point 12 (54)] shall not exceed 42.52 lbs/hr.
- 4) Emissions of particulate matter from the two feed bins #135 and #133 [emission points 20 (-)] shall not exceed 43.12 lbs/hr, each.
- 5) Emissions of particulate matter from the one conveyor and transfer points #134 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.
- 6) Emissions of particulate matter from the one mill feed bin #118 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.
- 7) Emissions of particulate matter from the one Raymond Mill #140 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.
- 8) Emissions of particulate matter from the one mixer #106 [emission point 20 (-)] shall not exceed 25.08 lbs/hr.
- 9) Emissions of particulate matter from the one seasoner #107 [emission point 20 (-)] shall not exceed 25.08 lbs/hr.
- 10) Emissions of particulate matter from the one elevator #110 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.
- 11) Emissions of particulate matter from the one conveyor and transfer points #111 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.
- 12) Emissions of particulate matter from the one classifier #112 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- a. 13) Emissions of particulate matter from the one conveyor and transfer points #117 [emission point 20 (-)] shall not exceed 19.24 lbs/hr.
- 14) Emissions of particulate matter from the one storage bin #223 [emission point 20 (-)] shall not exceed 23.00 lbs/hr.
- 15) Emissions of particulate matter from the one storage bin #224 [emission point 20 (-)] shall not exceed 19.24 lbs/hr.
- 16) Emissions of particulate matter from the one conveyor and transfer points #219A [emission point 20 (88)] shall not exceed 32.37 lbs/hr.
- 17) Emissions of particulate matter from the one screw conveyor and transfer points (from conveyor #219A to truck loadout) [emission point 20 (88)] shall not exceed 32.37 lbs/hr.
- 18) Emissions of particulate matter from the one truck loadout #307 [emission points 20 (88)] shall not exceed 32.37 lbs/hr.
- 19) Emissions of particulate matter from the one Hydrate Packer System [emission point 20 (-)] shall not exceed 23.00 lbs/hr.
- 20) Emissions of particulate matter from the one storage bin #222 [emission point 20 (-)] shall not exceed 29.57 lbs/hr.
- 21) Emissions of particulate matter from the one conveyor and transfer points #219 [emission point 20 (88)] shall not exceed 36.17 lbs/hr.
- 22) Emissions of particulate matter from the one truck loadout (Pulverized) [emission points 20 (88)] shall not exceed 36.17 lbs/hr.
- 23) Emissions of particulate matter from the one storage bin #124 (Rejects) [emission point 20 (89)] shall not exceed 35.24 lbs/hr.
- 24) Emissions of particulate matter from the one truck loadout (Rejects) [emission points 20 (88)] shall not exceed 35.24 lbs/hr.
- 25) Combined emissions of particulate matter from the one railcar loadout [emission points 26 (100)] shall not exceed 36.17 lbs/hr.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations: (Continued)**

- a. As determined by the following equations using the process weight rate (in units of tons/hr).

For process rates 1,000 lbs/hr or less: $E = 2.34$

For process rates up to 60,000 lbs/hr: $E = 3.59 P^{0.62}$

For process rates in excess of 60,000 lbs/hr: $E = 17.31 P^{0.16}$

For the equation E = rate of emission in lb/hr and P = process weight rate in tons/hr

- b. Pursuant to Regulation 401 KAR 59:010, Section 3, any continuous emissions into the open air shall not equal or exceed twenty percent (20%) opacity.
- c. In accordance with Regulation 401 KAR 63:021, total emissions of particulate matter [measured as $\text{Ca}(\text{OH})_2$] from the mixer #106 [emission point 20 (-)]; the seasoner #107 [emission point 20 (-)]; the four conveyor and transfer points #111, #117, #219A, and screw [emission points 20 (88) and (-)]; the one elevator #110 [emission point 20 (-)]; the one classifier #112 [emission point 20 (-)]; the two storage bins #223 and #224 [emission point 20 (-)]; the one truck loadout [emission point 20 (88)]; and the one hydrate packer system [emission point 20 (-)]; shall not exceed 5.673 lbs/hr.
- d. Any continuous emissions into the open air from the scrubber or baghouses associated with emission points listed under 2.c. above shall not equal or exceed twenty percent (20%) opacity.

Compliance Demonstration Method:

- a. Compliance with the hourly process emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly processing rate x Emission Factor as determined from AP-42 * / (Hours of operation per month)] x (1 – control efficiency)

- * If an Emission Factor other than that taken from AP-42 is used, documentation on how that emission factor was derived must be submitted to the Division's Central Office for approval within 6 months of issuance of the proposed permit. The Emission Factor for hydrated lime emission points not associated with a scrubber or baghouse (reference 2.c. above) will be 2.2 lbs/hour with a Control Efficiency of 90 percent (90%).

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

Compliance Demonstration Method: (Continued)

- b. Compliance with the opacity limits shall be determined as follows:
 - 1) In determining initial compliance with the opacity standards as listed above, the owner or operator shall use Reference Method 9, as directed by 401 KAR 59:010, Section 4.
 - 2) In demonstrating subsequent annual compliance with the specified opacity limitations listed above, as required by Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1c (Material incorporated by reference in 401 KAR 52:020, Title V Permits, Section 26), and/or upon request by the Division, the owner or operator shall use Reference Method 9, as directed by 401 KAR 59:010, Section 4.
 - 3) If any of the emission units associated with a baghouse or scrubber are in operation during any period of malfunction of the associated baghouse or scrubber, the permittee shall determine compliance through maintenance of the records required by Item e. under **5. Specific Recordkeeping Requirements** below.

3. Testing Requirements:

- a. Pursuant to Regulations 401 KAR 50:055, General compliance requirements; 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 59:010, Section 4, shall be conducted as required by the Division. The Reference Methods used to determine compliance with the aforementioned emission standards are as follows:
 - 1) Reference Method 1 – Selection of sample and velocity traverses.
 - 2) Reference Method 2 – Velocity and volumetric flow rate.
 - 3) Reference Method 3 – Gas analysis.
 - 4) Reference Method 9 – Opacity of continuous emissions.
 - 5) Reference Method 5 shall be used for the emission rates of particulate matter and the associated moisture content. For Reference Method 5:
 - a) Reference Method 1 – Select the sampling site and number of traverse sampling points.
 - b) Sampling time for each run shall be at least sixty (60) minutes.
 - c) Minimum sample volume shall be 0.85 dscm [thirty (30) dscf].
 - d) Smaller sampling time or volumes, when necessitated by process variables or other factors, may be approved by the Cabinet.
- b. Reference Method 5 shall be used to determine compliance with the particulate matter

emission standards set forth by 401 KAR 63:021 for those emission points associated with a scrubber or baghouse. The particulate matter measured is assumed to be 100 percent (100%) calcium hydroxide [Ca(OH)₂].

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the following parameters:
 - 1) The monthly production rate of material processed.
 - 2) The monthly hours of operation (hours operated/month)
 - 3) The hourly pollutant emission rates (monthly average).
- b. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- c. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across each baghouse. This monitoring device will be read and this reading recorded once a day during the operation of the unit.

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the following information for the baghouses:
 - 1) The design and/or manufacturer's specifications.
 - 2) The operational procedures and preventative maintenance records.
 - 3) Daily records of the pressure drop across the baghouse during all periods of operation.
 - 4) During all periods of startup, shutdown, or malfunction of the baghouse, a daily (calendar day) log shall be kept of whether any air emissions were visible from the stack associated with the baghouse.
- b. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F. Condition 2. See 4.b. above.
- c. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- d. See Section F, Conditions 1 and 2.

- e. See **4. Specific Monitoring Requirements** above for additional recordkeeping requirements.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

- a. See Section F, Conditions 5, 6, 7, 8, 9, 10, and 11.
- b. See Section G, Conditions (a) 4 and 5, and (f)1.

7. Specific Control Equipment Operating Requirements:

- a. The baghouses associated with Emission Points 05 (80), 12 (54), (68) and (-), 20 (80), (88) and (-), and 26 (100) shall control particulate emissions and shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at all times the associated emission points are in use. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated baghouse is not.
- b. If any control device that requires its associated piece(s) of equipment to be enclosed to function effectively as an emissions control, such as; a baghouse that is not sufficiently sealed as a result of poor maintenance, careless operation, or negligence, the Division will consider that control to have been circumvented. This will constitute a violation of this permit. The violation must be corrected within thirty (30) days. Failure to correct the violation within thirty (30) days may result in enforcement action
- c. The control equipment, baghouse, listed for the lime barge loadout, emission point 12 (68), controls only those emissions coming from the loading spout. Any emissions coming from under the skirts surrounding the loading spout are fugitive. Any emissions coming from the barge openings are also fugitive.
- d. See Section E, Condition 1.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**COAL HANDLING:**

- 06 (22) **Receiving Hopper (Truck Dump)
(To Conveyor #54-801)
(Maximum Process Rate – 450 tons/hour)**
Constructed: 1995
Control: Moist material
- (-) **Grizzly Screen (Inside Receiving Hopper)
(Maximum Rated Capacity – 450 tons/hour)**
Constructed: 1995
Control: Moist material
- (22) **Receiving Hopper (Truck Dump)
(To Conveyor #54-801)
(Maximum Process Rate – 450 tons/hour)**
Constructed: 1995
Control: Moist material
- (-) **Grizzly Screen (Inside Receiving Hopper)
(Maximum Rated Capacity – 450 tons/hour)**
Constructed: 1995
Control: Moist material
- (22) **Conveyor and Transfer Points (#54-801) (30" x 480')
(From Receiving Hoppers to Solid Fuel Silo #2 or Conveyor #54-802)
(Maximum Process Rate – 450 tons/hour)**
Constructed: 1995
Control: Moist material
- (22) **Solid Fuel Silo #2
(From Conveyor #54-801 to Conveyor #54-803)
(Maximum Process Rate – 450 tons/hour)**
Constructed: 1995
Control: Moist material
- (22) **Conveyor and Transfer Points (#54-802) (30" x 100')
(From Conveyor #54-801 to Solid Fuel Silo #1 and Coal Silo#3)
(Maximum Process Rate – 450 tons/hour)**
Constructed: 1995
Control: Moist material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**COAL HANDLING: (CONTINUED)**

- 06 (22) **Solid Fuel Silo #1**
 (From Conveyor #54-802 to Conveyor #54-803)
 (Maximum Process Rate – 450 tons/hour)
 Constructed: 1995
 Control: Moist material
- (22) **Coal Silo #3**
 (From Conveyor #54-802 to Conveyor #54-803)
 (Maximum Process Rate – 450 tons/hour)
 Constructed: 1995
 Control: Moist material
- (22) **Conveyor and Transfer Points (#54-803) (30" x 192.5)**
 (From Solid Fuel Silos #1 and #2 and Coal Silo #3 to Conveyor #54-804)
 (Maximum Process Rate – 450 tons/hour)
 Constructed: 1995
 Control: Moist material
- (22) **Conveyor and Transfer Points (#54-804) (30" x 710')**
 (From Conveyor #54-803 to Kiln #2 Solid Fuel Bin or Conveyors #54-805
 and #54-806)
 (Maximum Process Rate – 450 tons/hour)
 Constructed: 1995
 Control: Moist material
- (22) **Kiln #2 Solid Fuel Bin**
 (From Conveyor #54-804)
 (Maximum Process Rate – 450 tons/hour)
 Constructed: Pre-1975
 Control: Enclosure
- (22) **Conveyor and Transfer Points (#54-805) (30" x 45')**
 (From Conveyor #54-804 to Kiln #1 Solid Fuel Bin)
 (Maximum Process Rate – 450 tons/hour)
 Constructed: Pre-1975
 Control: Moist material
- (22) **Kiln #1 Solid Fuel Bin**
 (From Conveyor #54-805)

(Maximum Process Rate – 450 tons/hour)

Constructed: Pre-1975

Control: Enclosure

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

COAL HANDLING: (CONTINUED)

- 06 (22) **Conveyor and Transfer Points (#54-806) (30" x 100')**
(From Conveyor #54-804 to Kiln #3 Solid Fuel Bin or Conveyor #54-807)
(Maximum Process Rate – 450 tons/hour)
Constructed: 1976
Control: Moist material
- (22) **Kiln #3 Solid Fuel Bin**
(From Conveyor #54-806)
(Maximum Process Rate – 450 tons/hour)
Constructed: 1976
Control: Enclosure
- (22) **Conveyor and Transfer Points (#54-807) (30" x 135')**
(From Conveyor #54-806 to Kiln #4 Solid Fuel Bin or Conveyor #54-808)
(Maximum Process Rate – 450 tons/hour)
Constructed: 1995
Control: Moist material
- (22) **Kiln #4 Solid Fuel Bin**
(From Conveyor #54-807)
(Maximum Process Rate – 450 tons/hour)
Constructed: 1995
Control: Enclosure
- (22) **Conveyor and Transfer Points (#54-808) (30" x 75')**
(From Conveyor #54-807 to Kiln #5 Solid Fuel Bin)
(Maximum Process Rate – 450 tons/hour)
Constructed: 1995
Control: Moist material
- (22) **Kiln #5 Solid Fuel Bin**
(From Conveyor #54-808)
(Maximum Process Rate – 450 tons/hour)
Constructed: 1995
Control: Enclosure

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**ADDITIONS TO THE SOURCE****COAL UNLOADING:**

- 24 (100) Receiving Hopper (Barge Offloading)**
(Maximum Process Rate – 700 tons/hour)
Constructed: 2003
Control: Moist Material
- (100) Conveyor and Transfer Points**
[From Receiving Hopper (Barge Offloading) to Conveyor]
(Maximum Process Rate – 500 tons/hour)
Constructed: 2003
Control: Moist Material
- (100) Conveyor and Transfer Points**
(From Conveyor to Conveyor)
(Maximum Process Rate – 500 tons/hour)
Constructed: 2003
Control: Moist Material
- (100) Conveyor and Transfer Points**
(From Conveyor to Conveyor)
(Maximum Process Rate – 500 tons/hour)
Constructed: 2003
Control: Moist Material
- (100) Conveyor and Transfer Points**
[From Conveyor to Receiving Hopper (Truck Loadout)]
(Maximum Process Rate – 500 tons/hour)
Constructed: 2003
Control: Moist Material
- (100) Receiving Hopper (Truck Loadout)**
(Maximum Process Rate – 500 tons/hour)
Constructed: 2003
Control: Moist Material
- (100) Truck Loadout**
(Maximum Process Rate – 500 tons/hour)
Constructed: 2003

Control: Moist Material

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**APPLICABLE REGULATIONS:**

Regulation 401 KAR 60:005, Standards of performance for new stationary sources, which incorporates by reference 40 CFR 60.250 (40 CFR 60, Subpart Y), applies to each of the affected facilities listed above.

1. Operating Limitations:

N/A

2. Emission Limitations:

Fugitive emissions from the four receiving hoppers, emission points 06 (22) and 24 (100); the two grizzly screens, emission points 06 (-); the twelve conveyor and transfer points, emission points 06 (22) and 24 (100); the eight storage bins, emission points 06 (22); and the truck loadout, emission point 24 (100); shall not exhibit greater than twenty percent (20%) opacity, each, as specified in 40 CFR 60.252(c).

Compliance Demonstration Method:

- a. In determining initial compliance with the opacity standards as listed above, the owner or operator shall use, as directed by 40 CFR 60.254(b)(2), Method 9 and the procedures as described in 40 CFR 60.11.
- b. To ensure continued compliance with the specified opacity limitations listed above, subsequent annual compliance demonstrations, as required by 401 KAR 52:020, Section 22, Annual Emissions Certifications, or more frequent compliance demonstrations as deemed necessary by the Division to ensure continued compliance, the owner or operator shall use, as directed by 40 CFR 60.254(b)(2), Method 9 and the procedures as described in 40 CFR 60.11.

3. Testing Requirements:

See Section G, Condition (d)5 and 7.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the following parameters:
 - 1) The monthly production rate of raw material processed
 - 2) The monthly hours of operation (hours operated/month)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**4. Specific Monitoring Requirements: (Continued)**

- b. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- c. See Section F, Condition 2.

5. Specific Recordkeeping Requirements:

- a. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F, Condition 2. See 4. b. above.
- b. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- c. See Section F, Conditions 1 and 2.

6. Specific Reporting Requirements:

- a. See Section F, Conditions 5, 6, 7, 8, 9, 10 and 11.
- b. See Section G, Conditions (a)4 and 5, (d)2, and (f)1.

7. Specific Control Equipment Operating Conditions:

If any control method(s) proposed in the permit application prove to be inadequate to meet the emission requirements listed in the permit, the Division reserves the right to require additional controls, or another form of control, be utilized to meet the permit requirements.

8. Alternate Operating Schedule:

N/A

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

9. Compliance Schedule:

The equipment used in the conveying of the coarse material (limestone and coal) associated with this facility is not deemed to have adequate controls (controls listed in the application) to facilitate the conveying of **lime material (product, reject material, hydrate, or any other form of lime) or lime additive**. A Standard Operating Plan (SOP) addressing the conveying of such **lime material or lime additive** with the existing coarse material handling equipment and associated controls must be submitted to the Division for approval. This Plan must address the procedures, controls, monitoring requirements and corrective actions to be taken in the event of a malfunction to ensure the facility will be able to meet the emission limitations set forth in this permit. This Plan must be submitted to the Division for approval within ninety (90) calendar days of the issuance date of the Proposed Permit.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**KILNS:**

- 07 (24) Rotary Lime Kiln #1 / Pulverized Fuel Burner**
(Fuller Kiln – 10’6” x 300’)
(Kiln: Maximum Rated Capacity – 61 tons/hour of stone)
(Fuel: Pulverized Coal
Maximum Rated Capacity – 8.9 tons/hour)
Constructed: 1970
Control: Baghouse (Reverse-Air)
 (Wheelabrator No. 613 Model 360 Series 11.5)
- (26) Rotary Lime Kiln #2 / Pulverized Fuel Burner**
(Fuller Kiln – 10’6” x 300’)
(Kiln: Maximum Rated Capacity – 61 tons/hour of stone)
(Fuel: Pulverized Coal
Maximum Rated Capacity – 8.9 tons/hour)
Constructed: 1970
Control: Baghouse (Reverse-Air)
 (Wheelabrator No. 613 Model 360 Series 11.5)
- 08 (28) Rotary Lime Kiln #3 / Pulverized Fuel Burner**
(Allis-Chalmers Kiln – 14’6” x 13’6” x 400’6”)
(Kiln: Maximum Rated Capacity – 130 tons/hour of stone)
(Fuel: Pulverized Coal
Maximum Rated Capacity – 15.5 tons/hour)
Constructed: 1974
Control: Baghouse (Reverse-Air)
 (American Air)

APPLICABLE REGULATIONS:

Regulation 401 KAR 61:020, Existing process operations, which applies to each of the affected facilities listed above constructed before July 2, 1975.

40 CFR 63, Subpart AAAAA, National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants, which applies to emission points 07 (24), (26), and 08 (28) listed above. The compliance date for existing affected sources is no later than January 5, 2007.

1. Operating Limitations:

- a. Pursuant to 40 CFR 63, Subpart AAAAA, Table 2, a written operations, maintenance, and monitoring (OM&M) plan must be prepared. The plan must include the items listed in 40 CFR 63.7100(d) and the corrective actions to be taken when required in Table 5 to this subpart.

- b. See 40 CFR 63, Subpart AAAAA, Table 2.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations: (Continued)

- c. Kiln #2, that is being refurbished since being taken out of lime production in late 1998, will be subject to 40 CFR 63, Subpart AAAAA immediately upon restarting.

2. Emission Limitations:

- a. Pursuant to Regulation 401 KAR 61:020, Section 3(2) and Appendix A:
- 1) Combined emissions of particulate matter from rotary lime kiln #1 [emission point 07 (24)] shall not exceed 47.75 lbs/hr.
 - 2) Combined emissions of particulate matter from rotary lime kiln #3 [emission point 08 (28)] shall not exceed 55.12 lbs/hr.

As determined by the following equations using the process weight rate (in units of tons/hr).

For process rates of 1,000 lbs/hr or less $E = 2.58$

For process rates up to 60,000 lbs/hr: $E = 4.10 P^{0.67}$

For process rates in excess of 60,000 lbs/hr: $E = 55.0 P^{0.11} - 40$

For the equation E = rate of emission in lb/hr and P = process weight rate in tons/hr

- b. Pursuant to Regulation 401 KAR 61:020, Section 3, any continuous emissions into the open air shall not equal or exceed forty percent (40%) opacity for each kiln.
- c. Pursuant to 40 CFR 63, Subpart AAAAA, Table 1, PM emissions from each kiln must not exceed 0.12 lb/ton of stone feed (lb/tsf). This emission limit must be complied with by January 5, 2007 for Kilns #1 and #3, and immediately upon restart for Kiln #2.

Compliance Demonstration Method:

- a. Compliance with hourly emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly processing rate x Emission Factor as determined from AP-42 * / (Hours of operation per month)] x (1 – control efficiency)

- * If an Emission Factor other than that taken from AP-42 is used, documentation on how that emission factor was derived must be submitted to the Division's Central Office for approval within 6 months of issuance of the proposed permit.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

Compliance Demonstration Method: (Continued)

- b. Compliance with the opacity limits shall be determined as follows:
 - 1) In determining initial compliance with the opacity standards as listed above, the owner or operator shall use Reference Method 9, as directed by 401 KAR 61:020, Section 4.
 - 2) To ensure continued compliance with the specified opacity limitations listed above, subsequent annual compliance demonstrations, as required by Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1c (Material incorporated by reference in 401 KAR 52:020, Title V Permits, Section 26), or more frequent compliance demonstrations as deemed necessary by the Division to ensure continued compliance, the owner or operator shall use Reference Method 9, as directed by 401 KAR 61:020, Section 4.
 - 3) If any of the emission units associated with a baghouse are in operation during any period of malfunction of the associated baghouse, the permittee shall determine compliance through maintenance of the records required by Item e. under **5. Specific Recordkeeping Requirements** below.
- c. See Attachments, Table 3, for initial compliance with 40 CFR 63, Subpart AAAAAA emission limits per 40 CFR 63.7114.
- d. See Attachments, Table 5, for continuous compliance with 40 CFR 63, Subpart AAAAAA operating limits per 40 CFR 63.7121.

3. Testing Requirements:

- a. Pursuant to Regulations 401 KAR 50:055, General compliance requirements; 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 61:020, Section 4, shall be conducted as required by the Division. The Reference Methods used to determine compliance with the aforementioned emission standards are as follows:
 - 1) Reference Method 1 – Selection of sample and velocity traverses.
 - 2) Reference Method 2 – Velocity and volumetric flow rate.
 - 3) Reference Method 3 – Gas analysis.
 - 4) Reference Method 9 – Opacity of continuous emissions.
 - 5) Reference Method 5 shall be used for the emission rates of particulate matter and the associated moisture content. For Reference Method 5:
 - a) Reference Method 1 – Select the sampling site and number of traverse sampling

points.

b) Sampling time for each run shall be at least sixty (60) minutes.

c) Minimum sample volume shall be 0.85 dscm [thirty (30) dscf].

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements: (Continued)

- a. 5) d) Smaller sampling time or volumes, when necessitated by process variables or other factors, may be approved by the Cabinet.

See paragraph l. below of this Section for further testing requirements.

- b. Pursuant to 40 CFR 63.7110(a), all applicable performance tests on an existing affected source (Kilns #1 and #3) must be completed by January 5, 2007, according to the provisions in 40 CFR 63.7(a)(2) and 40 CFR 63.7114.
- c. Pursuant to 40 CFR 63.7110(b), all applicable performance tests on a newly affected source (Kiln #2) must demonstrate initial compliance with either the proposed emission limitation or the promulgated emission limitation within 180 calendar days after startup of the source according to the provisions in 40 CFR 63.7(a)(2)(ix) and 40 CFR 63.7114.
- d. Pursuant to 40 CFR 63.7111, a performance test must be conducted within 5 years following the initial performance test and within 5 years following each subsequent performance test thereafter.
- e. Pursuant to 40 CFR 63.7112(c), performance tests may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 63.7(e)(1).
- f. Pursuant to 40 CFR 63.7112(d), except for opacity and VE observations, three separate test runs must be conducted for each required performance test, as specified in 40 CFR 63.7(e)(3). Each test run must last at least one hour.
- g. Pursuant to 40 CFR 63.7112(h), the plan to be followed during testing must be made available to the Division at least 60 days prior to the testing.
- h. See Attachments, Table 3, for initial compliance with emission limits and Table 4 for performance test requirements under 40 CFR 63, Subpart AAAAA.
- i. See 40 CFR 63.7112 for additional performance test requirements.
- j. If no performance test(s) have been conducted on the above mentioned kilns in the five years prior to the issuance of this permit, then performance test(s) must be conducted within 180 days of permit issuance. If the test(s) show compliance with the standards set forth in 40 CFR 63, Subpart AAAAA, no further testing will be necessary to demonstrate initial compliance with this subpart. If performance test(s) have been conducted on the above mentioned kilns within five years prior to the issuance of this permit, those results must be submitted to the Division within thirty (30) calendar days after issuance of this permit for review. Initial compliance performance test(s) will then need to be conducted to demonstrate compliance with the standards set forth in 40 CFR 63, Subpart AAAAA by January 5, 2007 for Kilns #1 and #3. Initial compliance performance test(s) will then

need to be conducted to demonstrate compliance with the standards set forth in 40 CFR 63, Subpart AAAAA within 180 days upon restart for Kiln #2.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements: (Continued)

- k. The permittee may submit to the Division a request for consideration of alternative testing methods, or minor changes in methodology, if the required testing methods cannot be accomplished due to existing physical plant limitations.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the following parameters for Emission Points 07 (24), (26) and 08 (28):
 - 1) The monthly amount of material placed in each kiln.
 - 2) The monthly hours of operation (hours operated / month) of each kiln.
 - 3) The monthly amount of lime produced from each kiln.
 - 4) The hourly particulate emission rate.
- b. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- c. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across each baghouse. This monitoring device will be read and this reading recorded once a day during the operation of the unit.
- d. Pursuant to 40 CFR 63.7113, the permittee must:
 - 1) Install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the OM&M plan required by 40 CFR 63:7100(d) and 40 CFR 63:7113(a)(1) through (5), and each continuous opacity monitoring system (COMS) as required by 40 CFR 63:7113(g).
 - 2) For each flow measurement device, meet the requirements in 40 CFR 63:7113(a)(1) through (5) and (b)(1) through (4).
 - 3) For each pressure measurement device, meet the requirements in 40 CFR 63:7113(a)(1) through (5) and (c)(1) through (7).
 - 4) For each bag leak detection system (BLDS), meet any applicable requirements in 40 CFR 63:7113(a)(1) through (5) and (d)(1) through (8).

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements: (Continued)

- d. 5) For each PM detector, meet any applicable requirements in 40 CFR 63:7113(a)(1) through (5) and (e)(1) through (8).
- 6) For each emission unit equipped with an add-on air pollution control device, inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in item 6 of Table 2 and record the results of each inspection.
- 7) For each COMS used to monitor an add-on air pollution control device, meet the requirements in 40 CFR 63:7113(g)(1) and (2).
- e. See Attachments, Table 6, for additional monitoring requirements under 40 CFR 63, Subpart AAAAA.

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the following information for the baghouses:
 - 1) The design and/or manufacturer's specifications.
 - 2) The operational procedures and preventative maintenance records.
 - 3) Daily records of the pressure drop across the baghouse during all periods of operation.
 - 4) During all periods of startup, shutdown, or malfunction of the baghouse, a daily (calendar day) log shall be kept of whether any air emissions were visible from the stack associated with the baghouse.
- b. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F. Condition 2. See 4. b. above.
- c. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- d. See Section F, Conditions 1 and 2.
- e. See **4. Specific Monitoring Requirements** above for additional recordkeeping requirements.

6. Specific Reporting Requirements:

- a. Pursuant to 40 CFR 63.7112(h), performance test results must be documented in complete test reports that contain the information required by 40 CFR 63.7112(h)(1) through (10), as well as all other relevant information. The plan to be followed during testing must be made available to the Division at least 60 days prior to the testing.
- b. See Section F, Conditions 5, 6, 7, 8, 9, 10 and 11.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements: (Continued)

- c. See Section G, Conditions (a)4 and 5, and (f)1.

7. Specific Control Equipment Operating Conditions:

- a. The baghouses associated with Emission Points 07 (24) and (26) and 08 (28) shall control particulate emissions and shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at all times the associated emission points are in use. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated baghouse is not.
- b. If any control device that requires its associated piece(s) of equipment to be enclosed to function effectively as an emissions control, such; as a baghouse that is not sufficiently sealed as a result of poor maintenance, careless operation, or negligence, the Division will consider that control to have been circumvented. This will constitute a violation of this permit. The violation must be corrected within thirty (30) days. Failure to correct the violation within thirty (30) days may result in enforcement action
- c. See Section E, Condition 1.

8. Alternate Operating Scenarios:

N/A

9. Compliance Schedule:

Due to the promulgation of 40 CFR 63, Subpart AAAAAA being after the submittal of the Title V application, the requirement for the written operations, maintenance, and monitoring (OM&M) plan to be submitted with the application under 40 CFR 63.7100(d) could not be met. Therefore the OM&M plan must be submitted within ninety (90) calendar days of the issuance date of the Proposed Permit

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**KILNS:**

- 09 (30) Rotary Lime Kiln #4 / Pulverized Fuel Burner**
(KVS Kiln – 17' x 200')
(Kiln: Maximum Rated Capacity – 110 tons/hour of stone)
(Fuel: Pulverized Coal
Maximum Rated Capacity – 9.6 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 [Model: Amerex (7) Module RP-14-304 D6 (16 x 19)]
- (32) Rotary Lime Kiln #5 / Pulverized Fuel Burner**
(KVS Kiln – 17' x 200')
(Kiln: Maximum Rated Capacity – 110 tons/hour of stone)
(Fuel: Pulverized Coal
Maximum Rated Capacity – 10.1 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 [Model: Amerex (7) Module RP-14-304 D6 (16 x 19)]

APPLICABLE REGULATIONS:

Regulation 401 KAR 60:005, Standards of performance for new stationary sources, which incorporates by reference 40 CFR 60.340 (40 CFR 60, Subpart HH), applies to each of the affected facilities listed above.

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality, applies to each of the affected facilities listed above.

40 CFR 63, Subpart AAAAA, National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants, which applies to all the emission units listed above. The compliance date for existing affected sources is no later than January 5, 2007.

1. Operating Limitations:

- a. Lime production for each kiln shall not exceed 46 ton per hour.
- b. Fuel shall be coal. The coal will have a minimum heating value of 12,900 Btu/lb and a sulfur content not to exceed 0.9%.
- c. Pursuant to 40 CFR 63, Subpart AAAAA, Table 2, a written operations, maintenance, and monitoring (OM&M) plan must be prepared. The plan must include the items listed in 40 CFR 63.7100(d) and the corrective actions to be taken when required in Table 5 to this subpart.
- d. See 40 CFR 63, Subpart AAAAA, Table 2.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE

REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations:**

- a. Pursuant to Regulations 401 KAR 60:005 and 401 KAR 51:017:
- 1) Particulate matter emissions from each kiln, emission points 09 (30) and (32), shall not exceed 0.60 lb/ton of stone feed [0.41 lb/ton of lime output (0.02 gr/acfm)]. [40 CFR 60.342(a)(1)]
 - 2) Visible emissions discharged into the atmosphere from each kiln shall not exceed 15 percent (15%) opacity when exiting from a dry emission control device. [40 CFR 60.342(a)(2)]
 - 3) Sulfur dioxide emissions from each kiln shall not exceed 22.97 lbs/hour.
 - 4) Nitrogen oxide emissions from each kiln shall not exceed 128.33 lbs/hour.
 - 5) Carbon monoxide emissions from each kiln shall not exceed 91.67 lbs/hour.
- b. Pursuant to 40 CFR 63, Subpart AAAAA, Table 1, PM emissions from each kiln must not exceed 0.12 lb/ton of stone feed (lb/tsf). This emission limit must be complied with by January 5, 2007.

Compliance Demonstration Method:

- a. Compliance with the particulate matter standards listed in a. 1) above shall be determined using the following equation:

$$E = (c_s Q_{sd}) / PK, \text{ where}$$

E = emission rate of particulate matter, lb/ton of stone feed

c_s = concentration of particulate matter, g/dscf

Q_{sd} = volumetric flow rate of effluent gas, dscf/hr

P = stone feed rate, ton/hr

K = conversion factor, 7000gr/lb

- 1) In determining the particulate matter concentration (c_s) and the volumetric flow rate (Q_{sd}) of the effluent gas:
 - a) Method 5 shall be used at negative-pressure fabric filters and other types of control devices and
 - b) Method 5D shall be used at positive-pressure fabric filters.

The sampling time and sample volume for each run shall be at least 60 minutes and 31.8 dscf.

- 2) The stone feed rate for each run shall be determined using the monitoring device mentioned in **3. Testing Requirements** below.
- b. In determining initial compliance with the opacity standard listed in a. 2) above, the owner or operator shall use Reference Method 9 and the procedures as described in 40 CFR 60.11.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

Compliance Demonstration Method: (Continued)

- c. In demonstrating subsequent annual compliance with the specified opacity limitations listed above, as required by 401 KAR 52:020, Section 22, Annual Emissions Certifications, and/or upon request by the Division, the owner or operator shall use Method 9 and the procedures as described in 40 CFR 60.11
- d. In determining compliance with the sulfur dioxide standard listed in a. 3) above, the owner or operator shall use Reference Method 6 as referenced in State Regulation 401 KAR 50:015, Section 1.
- e. In determining compliance with the nitrogen oxide standard listed in a. 4) above, the owner or operator shall use Reference Method 7 as referenced in State Regulation 401 KAR 50:015, Section 1.
- f. In determining compliance with the carbon monoxide standard listed in a. 5) above, the owner or operator shall use Reference Method 10 as referenced in State Regulation 401 KAR 50:015, Section 1.
- g. In determining compliance with the sulfur content limitation of the coal the owner or operator may obtain certification from the supplier or a sample from each shipment must be tested to ensure compliance. The test method used to determine the percent sulfur in the coal will be ASTM Method D388-66(72).
- h. See Attachments, Table 3, for initial compliance with 40 CFR 63, Subpart AAAAAA emission limits per 40 CFR 63.7114.
- i. See Attachments, Table 5, for continuous compliance with 40 CFR 63, Subpart AAAAAA operating limits per 40 CFR 63.7121.

3. Testing Requirements:

- a. Pursuant to 40 CFR 60.343(d), for the purpose of conducting a performance test, the owner or operator shall install, calibrate, maintain, and operate a device for measuring the mass rate of stone feed to each rotary lime kiln. The measuring device used must be accurate to within ± 5 percent of the mass rate over its operating range.
- b. Pursuant to Regulation 401 KAR 50:055, General compliance requirements; 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing in accordance with EPA Method 5 for particulate matter as specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division. See paragraph k. below of this Section for further testing requirements.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements: (Continued)

- c. Pursuant to Regulation 401 KAR 50:055, General compliance requirements; 401 KAR 50:045, Section 1, performance testing in accordance with EPA Method 6 for sulfur dioxide, EPA Method 7 for nitrogen oxide, and EPA Method 10 for carbon monoxide as specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division. See paragraph k. below of this Section for further testing requirements.
- d. Pursuant to 40 CFR 63.7110(a), all applicable performance tests on an existing affected source must be complete by January 5, 2007, according to the provisions in 40 CFR 63.7(a)(2) and 40 CFR 63.7114.
- e. Pursuant to 40 CFR 63.7111, a performance test must be conducted within 5 years following the initial performance test and within 5 years following each subsequent performance test thereafter.
- f. Pursuant to 40 CFR 63.7112(c), performance tests may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 63.7(e)(1).
- g. Pursuant to 40 CFR 63.7112(d), except for opacity and VE observations, three separate test runs must be conducted for each required performance test, as specified in 40 CFR 63.7(e)(3). Each test run must last at least 1 hour.
- h. Pursuant to 40 CFR 63.7112(h), the plan to be followed during testing must be made available to the Division at least 60 days prior to the testing.
- i. See Attachments, Table 4, for performance test requirements under 40 CR 63, Subpart AAAAAA.
- j. See 40 CFR 63.7112 for additional performance test requirements.
- k. If no performance test(s) have been conducted on the above mentioned kilns in the five years prior to permit issuance, then performance test(s) will be done within 180 days of permit issuance. If the test(s) show compliance with the standards set forth in 40 CFR 63, Subpart AAAAAA, no further testing will be necessary to demonstrate initial compliance with this subpart. If performance test(s) have been conducted on the above mentioned kilns within five years prior to the issuance of this permit, those results must be submitted to the Division within thirty (30) calendar days after issuance of this permit for review, and initial compliance performance test(s) will need to be conducted to demonstrate compliance with the standards set forth in 40 CFR 63, Subpart AAAAAA by January 5, 2007.
- l. The permittee may submit to the Division a request for consideration of alternative testing methods, or minor changes in methodology, if the required testing methods cannot be accomplished due to existing physical plant limitations.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**4. Specific Monitoring Requirements:**

- a. Pursuant to 40 CFR 60.343(a), the owner or operator shall install, calibrate, maintain and operate a continuous monitoring system to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere from each kiln. The span of this system shall be set at 40 percent (40%) opacity.
- b. The permittee shall monitor and maintain records of the following parameters for Emission Points 09 (30) and (32):
 - 1) The monthly amount of material placed in each kiln.
 - 2) The monthly hours of operation (hours operated / month) of each kiln.
 - 3) The monthly amount of lime produced from each kiln.
- c. Pursuant to 40 CFR 63.7113, the permittee must:
 - 1) Install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the OM&M plan required by 40 CFR 63:7100(d) and 40 CFR 63:7113(a)(1) through (5), and each continuous opacity monitoring system (COMS) as required by 40 CFR 63:7113(g).
 - 2) For each flow measurement device, meet the requirements in 40 CFR 63:7113(a)(1) through (5) and (b)(1) through (4).
 - 3) For each pressure measurement device, meet the requirements in 40 CFR 63:7113(a)(1) through (5) and (c)(1) through (7).
 - 4) For each bag leak detection system (BLDS), meet any applicable requirements in 40 CFR 63:7113(a)(1) through (5) and (d)(1) through (8).
 - 5) For each PM detector, meet any applicable requirements in 40 CFR 63:7113(a)(1) through (5) and (e)(1) through (8).
 - 6) For each emission unit equipped with an add-on air pollution control device, inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in item 6 of Table 2 and record the results of each inspection.
 - 7) For each COMS used to monitor an add-on air pollution control device, meet the requirements in 40 CFR 63:7113(g)(1) and (2).

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the following information for the baghouses:
 - 1) The design and / or manufacturer's specifications.
 - 2) The operational procedures and preventative maintenance records.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements: (Continued)

- a. 3) During all periods of startup, shutdown, or malfunction of the baghouse, a daily (calendar day) log shall be kept of whether any air emissions were visible from the stack associated with the baghouse.
- 4) If no visible emissions are observed, then no further monitoring is required. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluations. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- b. Records shall be maintained of any 6-minute average that is in excess of the emissions specified by a. under **2. Emissions Limitations**.
- c. If 40 CFR 60.343(b) applies, the opacity shall be recorded for any point(s) where visible emissions are observed for at least three 6-minute periods. The corresponding feed rate of the kiln shall also be recorded.
- d. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F, Condition 2.
- e. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- f. See **4. Specific Monitoring Requirements** above for additional recordkeeping requirements.
- g. See Section F, Conditions 1 and 2.

6. Specific Reporting Requirements:

- a. Pursuant to 40 CFR 60.343(e), the owner or operator shall submit reports of excess emissions of all 6-minute periods during which the average opacity of the visible emissions from any lime kiln utilizing a continuous monitoring system is greater than 15 percent.
- b. Pursuant to 40 CFR 60.343(e), if visible emission observations are made by a certified visible emissions observer performing a Method 9 test, reports of excess emissions shall be submitted semiannually.
- c. See Section F, Conditions 5, 6, 7, 8, 9, 10 and 11.
- d. See 40 CFR 63.7131 for additional reporting requirements.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Requirements:

- a. All pollution control devices associated with Emission Points 09 (30) and (32) shall be in

place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or operating procedures at all times the associated emission points are in use. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated baghouse is not.

- b. If any control device that requires its associated piece(s) of equipment to be enclosed to function effectively as an emissions control, such; as a baghouse that is not sufficiently sealed as a result of poor maintenance, careless operation, or negligence, the Division will consider that control to have been circumvented. This will constitute a violation of this permit. The emissions generated by the piece(s) of equipment utilizing that control will be deemed fugitive in nature at that time. The violation must be corrected within thirty (30) days. Failure to correct the violation within thirty (30) days may result in enforcement action

8. Alternate Operating Scenarios:

N/A

9. Compliance Schedule:

Due to the promulgation of 40 CFR 63, Subpart AAAAAA being after the submittal of the Title V application, the requirement for the written operations, maintenance, and monitoring (OM&M) plan to be submitted with the application under 40 CFR 63.7100(d) could not be met. Therefore the OM&M plan must be submitted within ninety (90) calendar days of the issuance date of the Proposed Permit

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING:

Discharge of Kilns #1, #2, and #3 to Screening Operation:

- 13 (36) **Conveyor and Transfer Points (#89-813) (24" x 90')**
(From Kilns #1 and #2 to Conveyor #87-815)
(Maximum Process Rate – 130 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-3B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)
- (36) **Conveyor and Transfer Points (#89-811) (24" x 50')**
(From Kiln #3 to Conveyor #87-815)
(Maximum Process Rate – 120 tons/hour)
Constructed: 1976
Control: Enclosed in building and Baghouse (DC-3B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)
- (36) **Conveyor and Transfer Points (#89-815) (24" x 201')**
(From Conveyors #89-811 and #89-813 to Conveyor #87-817)
(Maximum Process Rate – 130 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-3B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)
- (36) **Conveyor and Transfer Points (#89-817) (24" x 284')**
[From Conveyor #87-815 to 3' x 10' Screen (LM) Normal, 6' x 20'
Screen (LM), Bucket Elevator, and Conveyors #89-819 and #89-822]
(Maximum Process Rate – 130 tons/hour)
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-3B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)
- (36) **Conveyor and Transfer Points (#89-814) (24" x 90')**
(From Kilns #1 and #2 to Conveyor #87-816)
(Maximum Process Rate – 130 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-3A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Discharge of Kilns #1, #2, and #3 to Screening Operation: (Continued)

- 13 (36) **Conveyor and Transfer Points (#89-812) (24" x 60')**

(From Kiln #3 to Conveyor #87-816)
(Maximum Process Rate – 120 tons/hour)
Constructed: 1976
Control: Enclosed in building and Baghouse (DC-3A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

(36) Conveyor and Transfer Points (#89-816) (24" x 201')
(From Conveyors #89-812 and #89-814 to Conveyor #87-818)
(Maximum Process Rate – 130 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-3A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

(36) Conveyor and Transfer Points (#89-818) (24" x 276')
[From Conveyor #87-816 to 3' x 10' Screen (HM) Normal, 6' x 20' Screen (HM), and Conveyors #89-819 and #89-822]
(Maximum Process Rate – 130 tons/hour)
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-3A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

Discharge of Kilns #4 and #5 to Screening Operation:

14 (34) Conveyor and Transfer Points (#89-801) (24" x 193')
(From Kilns #4 and #5 to Conveyor #87-803) (Fines Kiln Run)
(Maximum Process Rate – 175 tons/hour)
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-1A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

(34) Conveyor and Transfer Points (#89-803) (24" x 199')
(From Conveyor #89-801 to Conveyor #87-805)
(Maximum Process Rate – 175 tons/hour)
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-2A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Discharge of Kilns #4 and #5 to Screening Operation: (Continued)

14 (38) Conveyor and Transfer Points (#89-805) (24" x 235.5')
[From Conveyor #87-803 to 3' x 10' Screen (HM), 6' x 20' Screen (LM),

Bucket Elevator, and Conveyors #89-807 and #89-822]**(Maximum Process Rate – 175 tons/hour)**

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-2A)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

- (34) **Conveyor and Transfer Points (#89-802) (24" x 188.5')**
(From Reclaim Receiving Hopper and Kilns #4 and #5 to
Conveyor #87-804) (Coarse Kiln Run)

(Maximum Process Rate – 175 tons/hour)

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-1B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

- (34) **Conveyor and Transfer Points (#89-804) (24" x 198.5')**
(From Conveyor #89-802 to Conveyor #87-806)
(Maximum Process Rate – 175 tons/hour)

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-2B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)

- (38) **Conveyor and Transfer Points (#89-806) (24" x 235.5')**
[From Conveyor #87-804 to 3' x 10' Screen (HM), 6' x 20' Screen (LM),
Bucket Elevator, and Conveyors #89-808 and #89-822, or 6' x 20'
Double-Deck Screen]

(Maximum Process Rate – 175 tons/hour)

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-2B)
Baghouse (Pulse-Jet)
(Model: DCE SI34F6AD)**SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****LIME HANDLING: (CONTINUED)****Lime Screening and Conveying Operation to Storage Silos:**

- 15 (38) **Screen – (HM) (3' x 10' Double-Deck)**
(Maximum Rated Capacity – 175 tons/hour)
[From Conveyor #89-805 to 6' x 20' Screen (LM), Bucket Elevator, and

- Conveyors #89-807 and #89-822 (Rejects)]**
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (38) **Screen – (HM) (3' x 10' Double-Deck)**
(Maximum Rated Capacity – 175 tons/hour)
[From Conveyor #89-806 to 6' x 20' Screen (LM), Bucket Elevator, and
Conveyors #89-808 and #89-822 (Rejects)]
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (38) **Screen – (HM) Normal (3' x 10' Double-Deck)**
(Maximum Rated Capacity – 175 tons/hour)
[From Conveyor #89-818 to 6' x 20' Screen (HM), Silo #3, and
Conveyors #89-819 and #89-822 (Rejects)]
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (38) **Screen – (LM) Normal (Grizzly)**
(Maximum Rated Capacity – 175 tons/hour)
[From Conveyor #89-817 to 6' x 20' Screens (HM) and (LM), Silo #3,
Bucket Elevator, and Conveyors #89-819 and #89-822 (Rejects)]
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (-) **Dust Collector (Vacuum Cleaning System)**
(To Rejects Conveyor #89-822)
Constructed: 1995
Control: N/A

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (38) **Conveyor and Transfer Points (#89-822) (Rejects) (26" x 113.5')**
[From 3' x 10' Screens (HM), (HM) Normal, (LM) Normal, and Vacuum
Cleaning System to Reject Bin]
(Maximum Process Rate – 305 tons/hour)

Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)

(-) **Dust Collector (Reject Bin) (DC-10)
(To Reject Bin)**

Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Sly STJ-1916-10)

(38) **Reject Bin
[From Conveyor #89-822 and Dust Collector (DC-10)]
(Maximum Process Rate – 305 tons/hour)**

Constructed: 1995
Control: Enclosed in building and Baghouse (DC-10)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)

(38) **Conveyor and Transfer Points (#89-819) (Kiln Run) (24' x 463')
[From 3' x 10' Screens (HM) Normal and (LM) Normal to Storage Silo
#11 and Conveyor #89-809]
(Maximum Process Rate – 130 tons/hour)**

Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)

(-) **Dust Collector (Silo #11) (DC-13)
(To Silo #11)**

Constructed: 1990
Control: Baghouse (Pulse-Jet)
(Model: Fuller 144C12)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

15 (56) **Storage Silo #11 [2 ½ Kiln Run (HM) / LS]
[From Conveyor #89-819 and Dust Collector (DC-13) to Conveyor
#94-803]
(Maximum Process Rate – 130 tons/hour)
Constructed: 1990**

Control: Enclosed

- (38) **Conveyor and Transfer Points (#89-807) (Fines Kiln Run) (24" x 515')**
[From 3' x 10' Screen (HM) to Storage Silo #12 and Conveyor #89-809]
(Maximum Process Rate – 175 tons/hour)

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)

- (-) **Dust Collector (Silo #12) (DC-14)**
(To Silo #12)

Constructed: 1995

Control: Baghouse (Pulse-Jet)
(Model: Fuller 144C12)

- (58) **Storage Silo #12 [2 ½ x 0 Kiln Run (HM) / HS]**
[From Conveyor #89-807 and Dust Collector (DC-14) to Conveyor #94-803]
(Maximum Process Rate – 175 tons/hour)

Constructed: 1990

Control: Enclosed

- (56/58) **Conveyor and Transfer Points (#89-809) (24" x 133')**
[From Conveyors #89-807 and #89-819 to Storage Silo #13]
(Maximum Process Rate – 305 tons/hour)

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-13 or DC-14)
Baghouse (Pulse-Jet)
(Model: Fuller 144C12)

- (38) **Conveyor and Transfer Points (#89-808) (Coarse Kiln Run) (24" x 595')**
[From 3' x 10' Screen (HM) to Storage Silo #13 and Conveyor #89-810]
(Maximum Process Rate – 175 tons/hour)

Constructed: 1995

Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (-) **Dust Collector (Silo #13) (DC-15)**
(To Silo #13)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Sly STJ-1111-10)

- (60) **Storage Silo #13 [2 ½ Kiln Run (HM) / (HS/LS)]**
[From Conveyors #89-808 and #89-809 and Dust Collector (DC-15) to Conveyor #94-801]
(Maximum Process Rate – 305 tons/hour)
Constructed: 1995
Control: Enclosed
- (60) **Conveyor and Transfer Points (#89-810) (24" x 64.5')**
(From Conveyor #89-808 to Crusher on top of Storage Silo #14)
(Maximum Process Rate – 175 tons/hour)
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-15)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-108-10)
- (60) **Tertiary Crusher (Roll)**
(Maximum Rated Capacity – 175 tons/hour)
(From Conveyor #89-810 to Silo #14)
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-15)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-108-10)
- (60) **Storage Silo #14 [Crushed 2 ½ Kiln Run (HM) / (HS/LS)]**
(From Roll Crusher on top of Storage Silo #14 to Conveyor #94-801)
(Maximum Process Rate – 175 tons/hour)
Constructed: 1995
Control: Enclosed
- (38) **Screen (HM) (6' x 20' Double-Deck)**
(Maximum Rated Capacity – 155 tons/hour)
[From 3' x 10' Screens (HM) Normal and (LM) Normal and Conveyor #94-804 to Silo #3, Screw Conveyor, or Conveyor #89-821]
Constructed: 1995
Control: Enclosed in building and Baghouse (DC-4)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-1918-10)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (38) **Storage Silo #3 [3/4 x 1/4 (HM) / LS]**
[From 6' x 20' Screen (HM) to Conveyors #94-805 and #94-810]
(Maximum Process Rate – 155 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-4)
 Baghouse (Pulse-Jet)
 (Model: Sly STJ-1918-10)

- (38) **Conveyor and Transfer Points (#89-821) [(HM / LS) Only] (24" x 60')**
[From 6' x 20' Screen (HM) to Storage Silos #1 and #2]
(Maximum Process Rate – 155 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (38) **Storage Silo #1 [+3/4 (HM) / LS]**
[From Conveyor #89-821 to Conveyors #94-805 and #94-810]
(Maximum Process Rate – 155 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (38) **Storage Silo #2 [+3/4 (HM) / LS]**
[From Conveyor #89-821 to Conveyors #94-805 and #94-810]
(Maximum Process Rate – 155 tons/hour)
Constructed: Pre-1975
Control: Enclosed in building and Baghouse (DC-4)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)
- (-) **Dust Collector (DC-4)**
(18" Screw Conveyor)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Sly STJ-1918-10)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (38) **Conveyor and Transfer Points (18" Screw)**
[From 6' x 20' Screen (HM) and Dust Collector (DC-4) to 18" Screw Conveyor]
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Enclosed
- (-) **Conveyor and Transfer Points (18" Screw)**

- (From 18" Screw Conveyor to 18" Screw Conveyor)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Enclosed
- (-)
Conveyor and Transfer Points (18" Screw)
(From 18" Screw Conveyor to 18" Screw Conveyor)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Enclosed
- (-)
Conveyor and Transfer Points (18" Screw)
(From 18" Screw Conveyor and Bucket Elevator #57-835 to Silos #7, #8, #9, and #10)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Enclosed
- (-)
Dust Collector (Storage Silo #7) (DC-6)
(To Storage Silo #7)
Constructed: 1995
Control: Baghouse (Pulse-Air or Pulse-Jet)
(Model: Tri-Fab 360 or Wheelabrator 144 Series 6P)
- (48/52)
Storage Silo #7 (DOLO)
[From Pneumatic Conveyor and Dust Collector (DC-6) to Conveyors #94-805 and #94-811]
(Maximum Process Rate – 45 tons/hour)
Constructed: 1985
Control: Enclosed

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (48/52) Storage Silo #8 (DOLO)
[From Pneumatic Conveyor to Conveyors #94-805 and #94-811]
(Maximum Process Rate – 45 tons/hour)
Constructed: 1985
Control: Enclosed
- (-)
Dust Collector (Storage Silo #9) (DC-7)
(To Storage Silo #9)
Constructed: 1995

Control: Baghouse (Pulse-Air or Pulse-Jet)
(Model: Tri-Fab 360 or Wheelabrator 144 Series 6P)

- (48/52) **Storage Silo #9 (-1/4)**
[From Screw Conveyor and Dust Collector (DC-7) to Screw Conveyor]
(Maximum Process Rate – 45 tons/hour)
Constructed: 1987
Control: Enclosed
- (48/52) **Storage Silo #10 (-1/4)**
(From Screw Conveyor to Screw Conveyor)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1987
Control: Enclosed
- (40) **Screen (LM) (6' x 20' Double-Deck)**
(Maximum Rated Capacity – 175 tons/hour)
[From 3' x 10' Screens (HM) and (LM) Normal to Bucket Elevator, 18"
Screw Conveyor , or Conveyor #89-820)]
Constructed: 1995
Control: Enclosed and Baghouse (DC-5)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1514-10)
- (40) **Bucket Elevator**
[From 3' x 10' Screens (HM) Normal and (LM) Normal and 6' x 20'
Screen (LM) to Crusher]
(Maximum Process Rate – 85 tons/hour)
Constructed: 1995
Control: Enclosed and Baghouse (DC-5)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1514-10)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (40) **Crusher (Roll)**
(Maximum Rated Capacity – 85 tons/hour)
[From Bucket Elevator to 6' x 20' Screen (LM)]
Constructed: 1995
Control: Enclosed and Baghouse (DC-5)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1514-10)
- (-) **Dust Collector (18" Screw Conveyor) (DC-5)**
(To 18" Screw Conveyor)

Constructed: Pre-1975
Control: Baghouse (Pulse-Jet)
(Model: Sly STJ-1514-10)

- (40) **Conveyor and Transfer Points (18" Screw)**
[From 6' x 20' Screen (LM) and Dust Collector (DC-5) to Storage Silo #5]
(Maximum Process Rate – 30 tons/hour)
Constructed: 1995
Control: Enclosed and Baghouse (DC-5)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1514-10)

- (40) **Storage Silo #5 [-1/8 (LM) / LS]**
[From 18" Screw Conveyor to Conveyors #94-805 and #94-810]
(Maximum Process Rate – 30 tons/hour)
Constructed: Pre-1975
Control: Enclosed

- (40) **Conveyor and Transfer Points (#89-820) (24" x 63')**
[From 6' x 20' Screen (LM) to Storage Silos #4 and #6]
(Maximum Process Rate – 175 tons/hour)
Constructed: 1995
Control: Enclosed and Baghouse (DC-5)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1514-10)

- (40) **Storage Silo #4 [3/4 x 1/8 (LM) / LS]**
[From Conveyor #89-820 to Conveyors #94-805 and #94-810]
(Maximum Process Rate – 175 tons/hour)
Constructed: Pre-1975
Control: Enclosed

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Screening and Conveying Operation to Storage Silos: (Continued)

- 15 (40) **Storage Silo #6 [3/4 x 1/8 (LM) / LS]**
[From Conveyor #89-820 to Conveyors #94-805 and #94-810]
(Maximum Process Rate – 175 tons/hour)
Constructed: Pre-1975
Control: Enclosed

Lime Handling from Silos to Loadout:

- 16 (-) **Dust Collector (Conveyor #94-801) (DC-17)**
(To Conveyor #94-801)
Constructed: 1995

Control: Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P or Sly TJ-128-10)

- (64) **Conveyor and Transfer Points (#94-801) (42" x 403.5')**
[From Storage Silos #13 and #14 and Dust Collector (DC-17) to
Conveyors #94-802, #94-804, and #94-806]
(Maximum Process Rate – 1140 tons/hour)
Constructed: 1995
Control: Enclosed and Baghouse (DC-17)
Baghouse (Pulse-Jet)
(Model: Sly STJ-1111-10)
- (-) **Conveyor and Transfer Points (Screw)**
(From Storage Silo #9 to Conveyor #94-805)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Completely Enclosed – No Emissions
- (-) **Conveyor and Transfer Points (Screw)**
(From Storage Silo #10 to Conveyor #94-805)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Completely Enclosed – No Emissions
- (52) **Conveyor and Transfer Points (#94-805) (30" x 30')**
(From Storage Silos #1 - #8 and Screw Conveyors from Silos #9 and #10
to Conveyors #94-803 and #94-806)
(Maximum Process Rate – 300 tons/hour)
Constructed: Pre-1975
Control: Enclosed and Baghouse (DC-11)
Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Handling from Silos to Loadout: (Continued)

- 16 (62) **Dust Collector (DC-16)**
(To Conveyor #94-803)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Sly STJ-1111-10)
- (62) **Conveyor and Transfer Points (#94-803) (42" x 265')**
[From Storage Silos #11 and #12, Conveyor #94-805, and Dust Collector
(DC-16) to Conveyors #94-802, #94-804, and #94-806]
(Maximum Process Rate – 1140 tons/hour)
Constructed: 1990
Control: Enclosed and Baghouse (DC-16)

Baghouse (Pulse-Jet)
(Model: Sly STJ-1111-10)

- (66) **Conveyor and Transfer Points (#94-804) (24" x 282')**
(From Conveyors #94-801 and #94-803 to 6' x 20' Screen (HM))
(Maximum Process Rate – 155 tons/hour)
Constructed: 1995
Control: Enclosed and Baghouse (DC-18)
Baghouse (Pulse-Jet)
(Model: Sly TJ-128-10)
- (66) **Dust Collector (DC-18)**
(To Screw Conveyor)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Sly TJ-128-10)
- (-) **Conveyor and Transfer Points (Screw)**
(From Dust Collector (DC-18) to Conveyor #94-806)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Completely Enclosed – No Emissions
- (52) **Conveyor and Transfer Points (#94-806) (30" x 180')**
(From Conveyors #94-801, #94-803, and #94-805 to Conveyor #94-807
and two 6' x 12' Screens)
(Maximum Process Rate – 375 tons/hour)
Constructed: Pre-1975
Control: Enclosed and Baghouse (DC-11)
Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Handling from Silos to Loadout: (Continued)

- 16 (52) **Screen (6' x 12' Double-Deck)**
(Maximum Rated Capacity – 200 tons/hour)
(From Conveyor #94-806 or Screw Conveyor)
Constructed: Pre-1975
Control: Enclosed and Baghouse (DC-11)
Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)
- (52) **Screen (6' x 12' Double-Deck)**
(Maximum Rated Capacity – 200 tons/hour)
(From Conveyor #94-806 or Screw Conveyor)
Constructed: Pre-1975
Control: Enclosed and Baghouse (DC-11)

Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)

- (-) **Conveyor and Transfer Points (Screw)**
(From two 6' x 12' Screens to Bucket Elevator #57-835)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Completely Enclosed – No Emissions
- (-) **Bucket Elevator (#57-835)**
(From Screw Conveyor to Storage Silos #7, #8, #9, and #10)
(Maximum Process Rate – 200 tons/hour)
Constructed: 1995
Control: Enclosed and Baghouse (DC-11)
Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)
- (52) **Dust Collector (DC-11)**
(To Screw Conveyor)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)
- (-) **Conveyor and Transfer Points (Screw)**
[From three Dust Collectors (DC-11) to Conveyor #94-807]
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Handling from Silos to Loadout: (Continued)

- 16 (52) **Conveyor and Transfer Points (#94-807) (30" x 55')**
(From Conveyors #94-806 and Screw Conveyor to Conveyors #94-808, #94-809, and #94-813)
(Maximum Process Rate – 375 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Wheelabrator 144 Series 6P)
- (48) **Conveyor and Transfer Points (#94-810) (24" x 20')**
(From Storage Silos #1 - #6 to Conveyors #94-808, #94-809, and #94-813)
(Maximum Process Rate – 275 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Air)
(Model: Tri-Fab 360)

- (-) **Conveyor and Transfer Points (Screw)**
(From Storage Silos #9 and #10 to Conveyor #94-811)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Air)
(Model: Tri-Fab 360)
- (48) **Conveyor and Transfer Points (#94-811) (24" x 48')**
(From Storage Silos #7 and #8 and Screw Conveyor from Storage Silos #9 and #10 to Conveyors #94-808, #94-809, and #94-813)
(Maximum Process Rate – 275 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Air)
(Model: Tri-Fab 360)
- (48) **Dust Collector (DC-9)**
(To Screw Conveyor)
Constructed: 1995
Control: Baghouse (Pulse-Air)
(Model: Tri-Fab 360)
- (-) **Conveyor and Transfer Points (Screw)**
(From Dust Collector (DC-9) to Conveyors #94-808, #94-809, and #94-813)
(Maximum Process Rate – 45 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model:)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Handling from Silos to Loadout: (Continued)

- 16 (46) **Dust Collector (DC-8)**
(To Conveyor #94-808)
Constructed: 1995
Control: Baghouse (Pulse-Air)
(Model: Sly STJ-68-10)
- (46) **Conveyor and Transfer Points (#94-808) (30" x 86')**
[From Conveyors #94-807, #94-810, #94-811, Screw Conveyor, and Dust Collector (DC-8) to Railroad Loadout and Conveyor #94-550 (to Hydrate Plant)]
(Maximum Process Rate – 375 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
(Model: Sly STJ-68-10)

- (70) **Conveyor and Transfer Points (#94-809) (30" x 161.5')**
(From Conveyors #94-807, #94-810, #94-811, and Screw Conveyor to
Conveyor #94-802)
(Maximum Process Rate – 375 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 (Model: DCE SI34F6AD)
- (68) **Dust Collector (DC-19)**
(To Conveyor #94-802)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 (Model: Sly STJ-108-10)
- (68) **Conveyor and Transfer Points (#94-802) (42" x 474.5')**
[From Conveyors #94-801, #94-803, #94-809, and Dust Collector (DC-19)
to Conveyor #94-812]
(Maximum Process Rate – 1140 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 (Model: Sly STJ-108-10)
- (68) **Conveyor and Transfer Points (#94-812) (42" x 153')**
(From Conveyor #94-802 to Barge Loadout)
(Maximum Process Rate – 1140 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 (Model: Sly STJ-108-10)

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LIME HANDLING: (CONTINUED)

Lime Handling from Silos to Loadout: (Continued)

- 16 (54) **Dust Collector (DC-12)**
(To Conveyor #94-813)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 (Model: Sly STJ-66-10)
- (54) **Conveyor and Transfer Points (#94-813) (26" x 30')**
[From Conveyors #94-807, #94-810, and #94-809; and Dust Collector
(DC-12) to Truck Loadout]
(Maximum Process Rate – 275 tons/hour)
Constructed: 1995
Control: Baghouse (Pulse-Jet)
 (Model: Sly STJ-66-10)

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:010, New process operations, which applies to emission units constructed on or after July 2, 1975.

Regulation 401 KAR 61:020, Existing process operations, which applies to emission units constructed before July 2, 1975.

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality applies to each of the affected facilities listed above constructed after September 22, 1982.

1. Operating Limitations:

None

2. Emission Limitations:

- a. Pursuant to Regulation 401 KAR 51:017, the particulate emissions from each of the affected facilities listed below are limited as follows:
 - 1) Combined emissions of particulate matter from the eight conveyor and transfer points, #89-811, #89-812, #89-813, #89-814, #89-815, #89-816, #89-817, and #89-818 [emission points 13 (36)] shall not exceed 5.98 lbs/hour.
 - 2) Combined emissions of particulate matter from the four conveyor and transfer points, #89-801, #89-802, #89-803, and #89-804 [emission points 14 (34)] shall not exceed 1.23 lbs/hour.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- a.
 - 3) Combined emissions of particulate matter from the eight conveyor and transfer points #89-805, #89-806, #89-807, #89-808, #89-809, #89-819, #89-820, #89-821, and one screw conveyor (to Silo #5) [emission points 14 (38), 15 (38), 15 (40), and 15 (56/58)] shall not exceed 1.85 lbs/hour.
 - 4) Combined emissions of particulate matter from the six screens, two (HM) (3' x 10' Double-Deck), one (HM) Normal, one (LM) Normal, one (HM) (6' x 20' Double-Deck), and one (LM) [emission points 15 (38) and 15 (40)] shall not exceed 1.85 lbs/hour.
 - 5) Emissions of particulate matter from the one conveyor and transfer points #89-822 (Rejects) [emission point 15 (38)] shall not exceed 1.85 lbs/hour.
 - 6) Emissions of particulate matter from the one reject bin [emission point 15 (38)] shall not exceed 1.85 lbs/hour.
 - 7) Combined emissions of particulate matter from the four screw conveyor and transfer points, from (HM) screen to Silos #7, #8, #9, and #10, [emission points 15 (38) and 15 (-)] shall not exceed 1.85 lbs/hour.

- 8) Emissions of particulate matter from the one bucket elevator [emission point 15 (40)] shall not exceed 1.85 lbs/hour.
- 9) Emissions of particulate matter from the one roll crusher [emission point 15 (40)] shall not exceed 1.85 lbs/hour.
- 10) Combined emissions of particulate matter from the ten storage silos, #1 through #10, [emission points 15 (38), (40), and (48/52)] shall not exceed 1.85 lbs/hour.
- 11) Emissions of particulate matter from the one conveyor and transfer points #89-810 [emission point 15 (60)] shall not exceed 1.94 lbs/hour.
- 12) Emissions of particulate matter from the one tertiary roll crusher [emission point 15 (60)] shall not exceed 1.94 lbs/hour.
- 13) Combined emissions of particulate matter from the four storage silos, #11 through #14, [emission points 15 (56), (58), and (60)] shall not exceed 1.94 lbs/hour.
- 14) Emissions of particulate matter from the one conveyor and transfer points #94-801 [emission point 16 (64)] shall not exceed 2.11 lbs/hour.
- 15) Combined emissions of particulate matter from the two screw conveyor and transfer points (from silos #9 and #10) [emission points 16 (-)] shall not exceed 0.76 lbs/hour.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- a. 16) Emissions of particulate matter from the one conveyor and transfer points #94-805 [emission point 16 (52)] shall not exceed 0.76 lbs/hour.
- 17) Emissions of particulate matter from the one conveyor and transfer points #94-803 [emission point 16 (62)] shall not exceed 2.11 lbs/hour.
- 18) Emissions of particulate matter from the one conveyor and transfer points #94-804 [emission point 16 (66)] shall not exceed 0.76 lbs/hour.
- 19) Emissions of particulate matter from the one conveyor and transfer points #94-806 [emission point 16 (52)] shall not exceed 0.76 lbs/hour.
- 20) Combined emissions of particulate matter from the two screens (6' x 12') [emission points 16 (52)] shall not exceed 0.76 lbs/hour.
- 21) Emissions of particulate matter from the one bucket elevator #57-835 [emission point 16 (-)] shall not exceed 0.76 lbs/hour.
- 22) Emissions of particulate matter from the one screw conveyor and transfer points [emission point 16 (-)] shall not exceed 0.76 lbs/hour.

- 23) Emissions of particulate matter from the one conveyor and transfer points #94-807 [emission point 16 (52)] shall not exceed 0.76 lbs/hour.
- 24) Combined emissions of particulate matter from the three conveyor and transfer points #94-810, #94-811, and one screw conveyor [emission points 16 (48) and 16 (-)] shall not exceed 1.85 lbs/hour.
- 25) Emissions of particulate matter from the one screw conveyor and transfer points [emission point 16 (-)] shall not exceed 0.76 lbs/hour.
- 26) Emissions of particulate matter from the one conveyor and transfer points #94-808 [emission point 16 (46)] shall not exceed 0.76 lbs/hour.
- 27) Emissions of particulate matter from the one conveyor and transfer points #94-809 [emission point 16 (70)] shall not exceed 0.44 lbs/hour.
- 28) Combined emissions of particulate matter from the two conveyor and transfer points #94-802 and #94-812 [emission point 16 (68)] shall not exceed 0.44 lbs/hour.
- 29) Emissions of particulate matter from the one conveyor and transfer points #94-813 [emission point 16 (54)] shall not exceed 5.46 lbs/hour.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- b. Pursuant to Regulation 401 KAR 51:017, the opacities for all lime handling points, emission points 13 (36), (40), 14 (34), (38), 15 (38), (40), (48/52), (56), (58), (60), (62), (64), (-), 16 (38), (40), (46), (48), (48/52), (52), (52/66), (54), (68), and (-); except the barge loadout, shall not exceed 7%, (the NSPS standard for nonmetallic mineral products).
- c. Pursuant to Regulation 401 KAR 51:017, the opacity for the barge loadout, emission point 16 (68), shall not exceed 15%.

Compliance Demonstration Method:

- a. Compliance with the hourly process emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly processing rate x Emission Factor as determined from AP-42 * / (Hours of operation per month)] x (1 – control efficiency)

- * If an Emission Factor other than that taken from AP-42 is used, documentation on how that emission factor was derived must be submitted to the Division's Central Office for approval within 6 months of issuance of the proposed permit.

- b. Compliance with the opacity limits shall be determined as follows:
 - 1) In determining compliance with the opacity standard as listed above, the owner or operator shall use Reference Method 9 and the procedures as described in 40 CFR 60.11 and 40 CFR 60.675(c).
 - 2) If any of the emission units associated with a baghouse are in operation during any period of malfunction of the associated baghouse, the permittee shall determine compliance through maintenance of the records required by Item e. under **5. Specific Recordkeeping Requirements** below.

3. Testing Requirements:

Pursuant to Regulations 401 KAR 50:055, General compliance requirements; 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulations 401 KAR 59:010, Section 4 and 61:020, Section 4, shall be conducted as required by the Division. The Reference Methods used to determine compliance with the aforementioned emission standards are as follows:

- a. Reference Method 1 – Selection of sample and velocity traverses.
- b. Reference Method 2 – Velocity and volumetric flow rate.
- c. Reference Method 3 – Gas analysis.
- d. Reference Method 9 – Opacity of continuous emissions.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements: (Continued)

- e. Reference Method 5 shall be used for the emission rates of particulate matter and the associated moisture content. For Reference Method 5:
 - 1) Reference Method 1 – Select the sampling site and number of traverse sampling points.
 - 2) Sampling time for each run shall be at least sixty (60) minutes.
 - 3) Minimum sample volume shall be 0.85 dscm [thirty (30) dscf].
 - 4) Smaller sampling time or volumes, when necessitated by process variables or other factors, may be approved by the Cabinet.

4. Specific Monitoring Requirements:

- a. The permittee shall monitor and maintain records of the following parameters:
 - 1) The monthly production rate of material processed.
 - 2) The monthly hours of operation (hours operated/month)
 - 3) The hourly pollutant emission rates.
- b. Observations are required during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to

- determine if any air emissions are visible from the equipment or the controls. These observations will be done at any processing rate of the equipment that would preclude circumvention of the intent of this requirement. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluation. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and date of certification.
- c. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across each baghouse. This monitoring device will be read and this reading recorded once a day during the operation of the unit.

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the following information for the dust collector:
- 1) The design and/or manufacturer's specifications.
 - 2) The operational procedures and preventative maintenance records.
 - 3) Daily records of the pressure drop across the baghouse during all periods of operation.
 - 4) During all periods of startup, shutdown, or malfunction of the baghouse, a daily (calendar day) log shall be kept of whether any air emissions were visible from the stack associated with the baghouse.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements: (Continued)

- b. Records of opacity monitoring data, including daily observations, and support information shall be kept in accordance with the provisions of Section F. Condition 2. See 4. b. above.
- c. A log shall be kept of all routine and non-routine maintenance performed on each control device.
- d. See Section F, Conditions 1 and 2.
- e. See **4. Specific Monitoring Requirements** above for additional recordkeeping requirements.

6. Specific Reporting Requirements:

See Section F, Conditions 5, 6, 7, 8, 9, 10, and 11.

7. Specific Control Equipment Operating Requirements:

- a. If any control device that requires its associated piece(s) of equipment to be enclosed to function effectively as an emissions control, such as; a baghouse that is not sufficiently

sealed as a result of poor maintenance, careless operation, or negligence, the Division will consider that control to have been circumvented. This will constitute a violation of this permit. The violation must be corrected **as soon as possible, but no later than** thirty (30) days. Failure to correct the violation within thirty (30) days may result in enforcement action

- b. If any control method(s) proposed in the permit application prove to be inadequate to meet the emission requirements listed in the permit, the Division reserves the right to require additional controls, or another form of control, be utilized to meet the permit requirements.

8. Alternate Operating Schedule:

N/A

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

9. Compliance Schedule:

The equipment used in the conveying of the coarse material (limestone and coal) associated with this facility is not deemed to have adequate controls (controls listed in the application) to facilitate the conveying of lime material (product, reject material, hydrate, or any other form of lime) or lime additive. A Standard Operating Plan (SOP) addressing the conveying of such lime material or lime additive with the existing coarse material handling equipment and associated controls must be submitted to the Division for approval. This Plan must address the procedures, controls, monitoring requirements and corrective actions to be taken in the event of a malfunction to ensure the facility will be able to meet the emission limitations set forth in this permit. This Plan must be submitted to the Division for approval within ninety (90) calendar days of the issuance date of the Proposed Permit.

SECTION C – INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to Regulation 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Limestone Reject System (From Spiral Classifier to injection system back into Mine)	401 KAR 59:010
2. Lime Reject System (From Spiral Classifier to injection system back into Mine)	401 KAR 59:010

SECTION D – SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for issuing Title V Permits* incorporated by reference in Regulation 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Particulate matter, carbon monoxide, nitrogen oxide, and sulfur dioxide emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

SECTION E – SOURCE CONTROL EQUIPMENT REQUIREMENTS

1. Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
2. All fugitive emissions shall be controlled in accordance with Regulation 401 KAR 63:010.

SECTION F – MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [Sections 1b (IV)2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
3. In accordance with the requirements of 401 KAR 52:020, Section 3(1)h, the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;

- c. Sample or monitor substances or parameters to assure compliance with the permit or any applicable requirements.

Reasonable times are defined as during all hours of operation, during normal office hours, or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Division's Florence Regional Office at least every six (6) months during the life of this permit, unless otherwise stated in this permit. [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
6. The semi-annual reports are due by January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of Regulation 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020, Section 23. All deviations from permit requirements shall be clearly identified in the reports.

SECTION F – MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

7. In accordance with the provisions of Regulation 401 KAR 50:055, Section 1, the owner or operator shall notify the Division for Air Quality's Florence Regional Office concerning startups, shutdowns, or malfunctions as follows
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall submit written notice upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Division for Air Quality's Florence Regional Office within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6. [Section 1b (V)3 and 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
9. Pursuant to Regulation 401 KAR 52:020, Title V Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the Regional Office) to the Division for Air Quality's Florence Regional Office and the U.S. EPA in accordance with the following requirements:
 - a. Identification of each term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status of the source, currently and over

- the reporting period.
- e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
 - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Florence Regional Office
8020 Veterans Memorial Dr.
Suite 110
Florence, KY 41042

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

- 10. In accordance with Regulation 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

SECTION F – MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

- 11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five (45) days or sooner if required by an applicable standard, after the completion of the fieldwork.

SECTION G – GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of Regulation 401 KAR 52:020 and the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit. [Section 1a 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition. [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with Regulation 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to Regulation 401 KAR 52:020, Section 12;
 - b. The Cabinet or the U.S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c. The Cabinet or the U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial

permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking, and reissuing, or terminating the permit; or compliance with the conditions of this permit. [Section 1a, 7 and 8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority. [401 KAR 52:020, Section 7(1)]

SECTION G – GENERAL PROVISIONS (CONTINUED)

(a) General Compliance Requirements (Continued)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal action or other action shall not invalidate any other portion or condition of this permit. [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance. [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States. [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in Regulation 401 KAR 50:038, Section 3(6). [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:020, Section 11(3)(b)]
11. This permit does not convey property rights or exclusive privileges. [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any

other permits, licenses, or approvals required by the Kentucky Environmental and Public Protection Cabinet or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 52:020, Section 11(3)(d)]
14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 52:020, Section 11(3)(a)]
15. This permit consolidates the authority of any previous issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

SECTION G – GENERAL PROVISIONS (CONTINUED)

(a) General Compliance Requirements (Continued)

16. Pursuant to Regulation 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
 - a. Applicable requirements that are included and specifically identified in the permit and
 - b. Non-applicable requirements expressly identified in this permit.
17. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol Form, DEP Form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the Cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least thirty (30) days prior to the test.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six (6) months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:020, Section 12]
2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets. [401 KAR 52:020, Section 8(2)]

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G – GENERAL PROVISIONS (CONTINUED)

(d) Construction, Start-up, and Initial Compliance Demonstration Requirements

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission points in accordance with the terms and conditions of this permit.

1. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
2. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Florence Regional Office in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
 - a. The date when construction commenced.
 - b. The date of start-up of the affected facilities listed in this permit.
 - c. The date when the maximum production rate specified in the permit application was achieved.
3. Pursuant to Regulation 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
4. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to Regulation 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section 1 of this permit or order of the Cabinet.

5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated, but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance test on the affected facilities in accordance with Regulation 401 KAR 50:055, General compliance requirements. These performance tests must also be conducted in accordance with General Provision G(d)7 of this permit and the permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test.
6. Terms and conditions in this permit established pursuant to the construction authority of Regulation 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

SECTION G – GENERAL PROVISIONS (CONTINUED)

(d) Construction, Start-up, and Initial Compliance Demonstration Requirements (Continued)

7. Pursuant to 401 KAR 50:045 Section 5 in order to demonstrate that a source is capable of complying with a standard at all times, a performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirement on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.

(e) Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to Regulation 401 KAR 52:020, Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. Pursuant to Regulations 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due o an

- emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
- e. This requirement does not relieve the source of other local, state, or federal notification requirements.
 2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement. [401 KAR 52:020, Section 24(3)]
 3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:020, Section 24(2)]

SECTION G – GENERAL PROVISIONS (CONTINUED)

(g) Risk Management

1. The permittee shall comply with all applicable requirements of Regulation 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD, 20703-1515

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone Depleting Substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b. Equipment used during the maintenance, service repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined in 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.
 - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-

depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditiones*.

SECTION H – ALTERNATE OPERATING SCENARIOS

The burning of petcoke is considered by the US EPA as an alternative fuel or raw material, and its use therefore, is a change in the method of operation. Whether or not the use of the altenative fuel or raw material would be exempt from being considered a modification depends on whether the source was capable of accommodating its use prior to January 6, 1975. **Closer review of the Title V application and previous applications revealed that Petcoke had never been listed as a fuel until the Title V application, which included the changing from stockpiles to silos along with the additions of a coke scale and blend scale to accommodate the use of petcoke. Having to install silos, coke scale, and blend scale to handle the addition of petroleum coke as a fuel to be blended with coal is considered a “physical change” to the source. It is the Division’s determination that the source was not capable of accommodating the use of petroleum coke as a blended fuel with coal prior to January 6, 1975, and therefore not covered by the PSD exemption for modifications under 40 CFR 52.21(b)(2)(iii)(e)(1). Therefore, prior to being authorized to burn petcoke or any other blended fuel in any of the five existing kilns, a PSD review will be required along with a permit modification.**

SECTION I – COMPLIANCE SCHEDULE

N/A